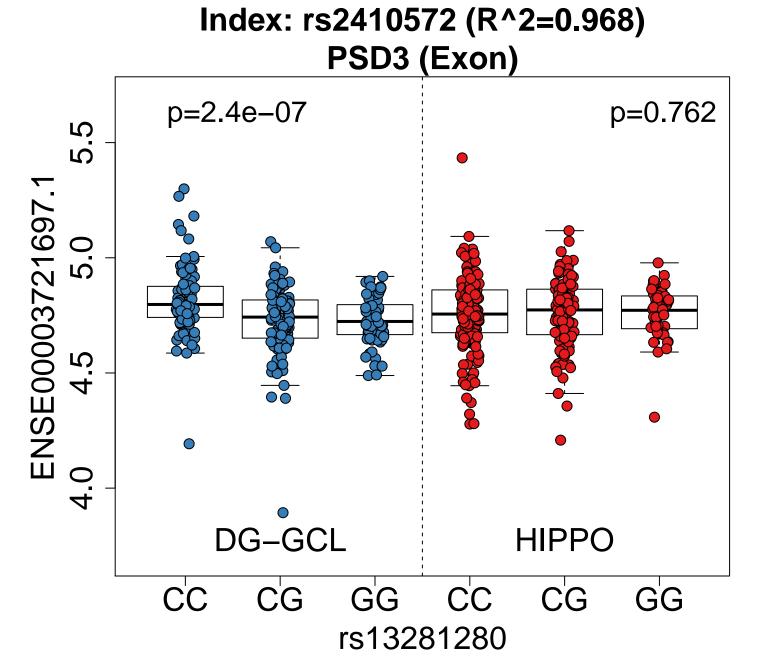
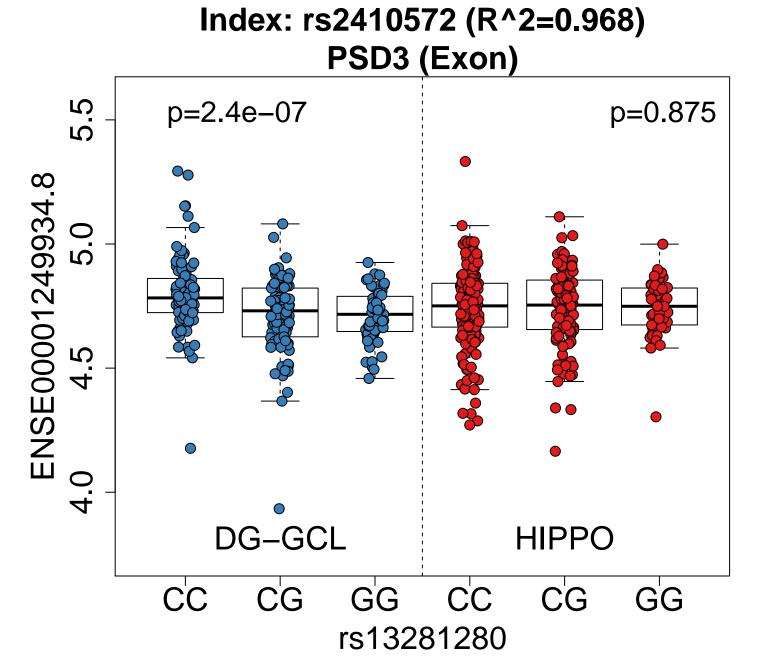
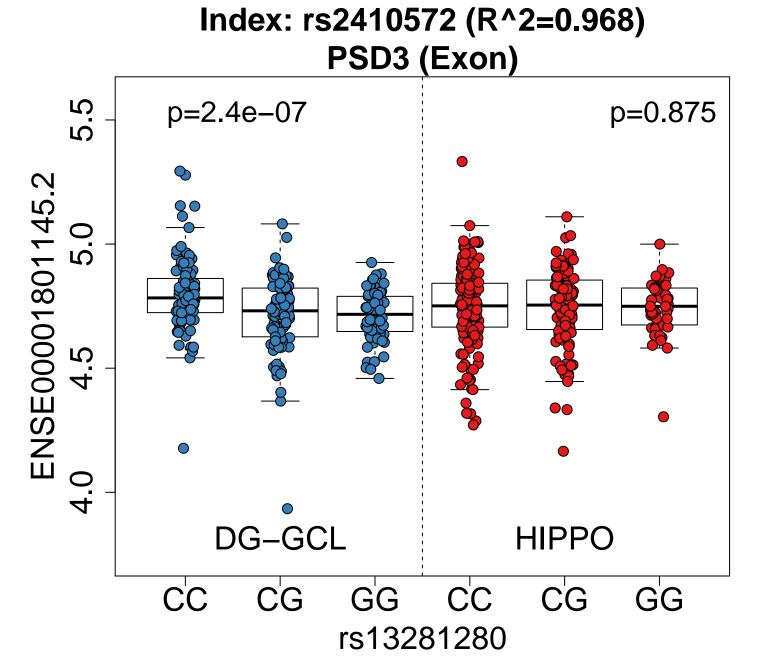
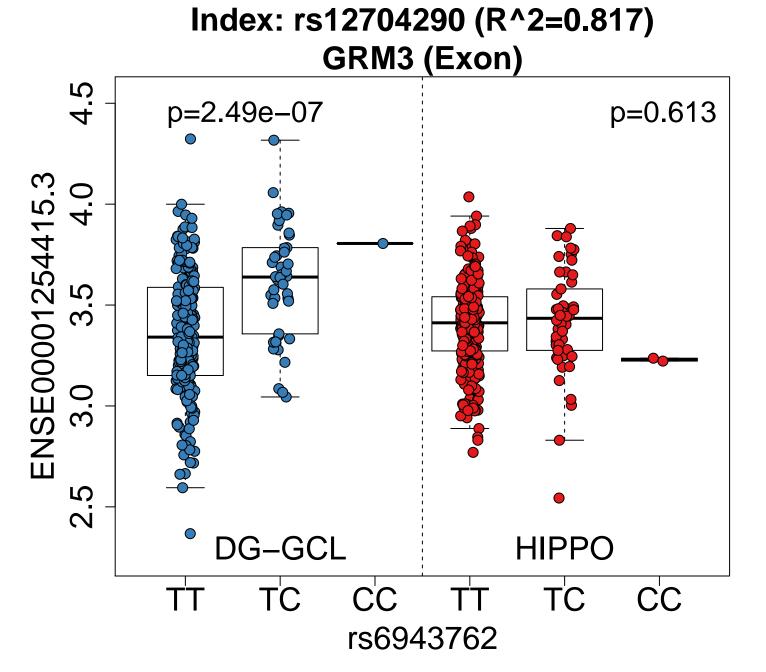


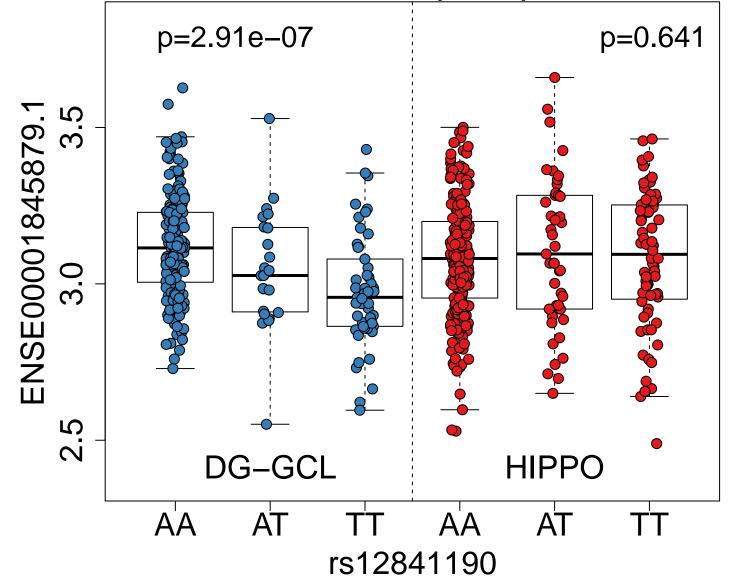
Index: rs12704290 (R^2=0.817) GRM3 (Exon) p=2.19e-07p=0.9883.5 ENSE00001254406.1 2.5 3.0 3.5 3.0 DG-GCL **HIPPO** TC CC CC TC rs6943762

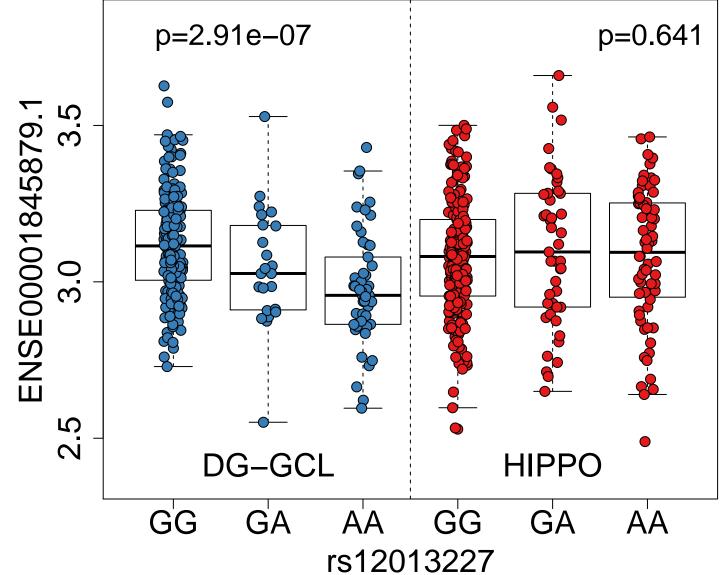


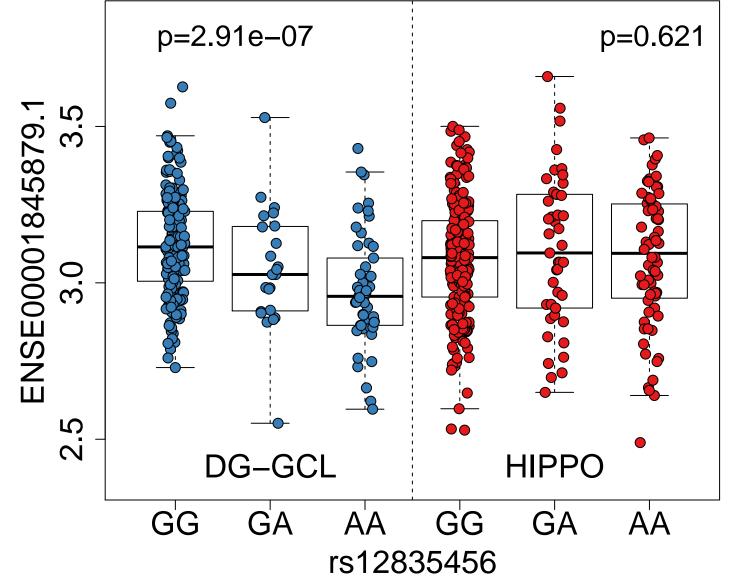


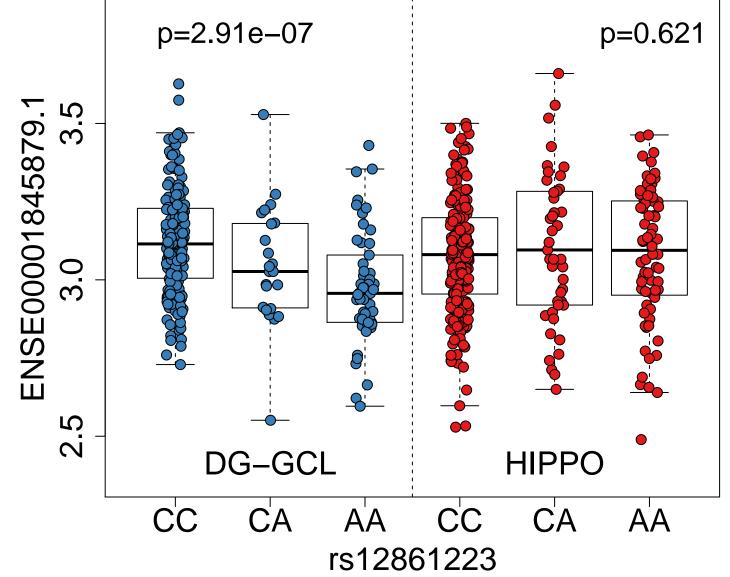


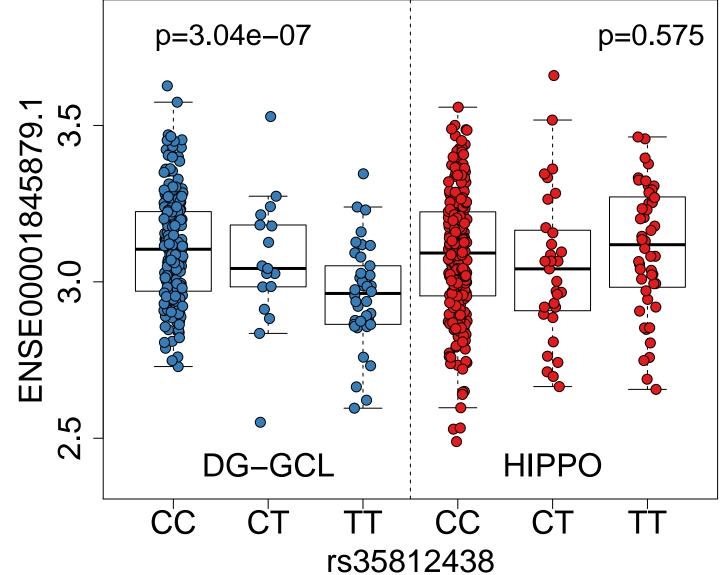


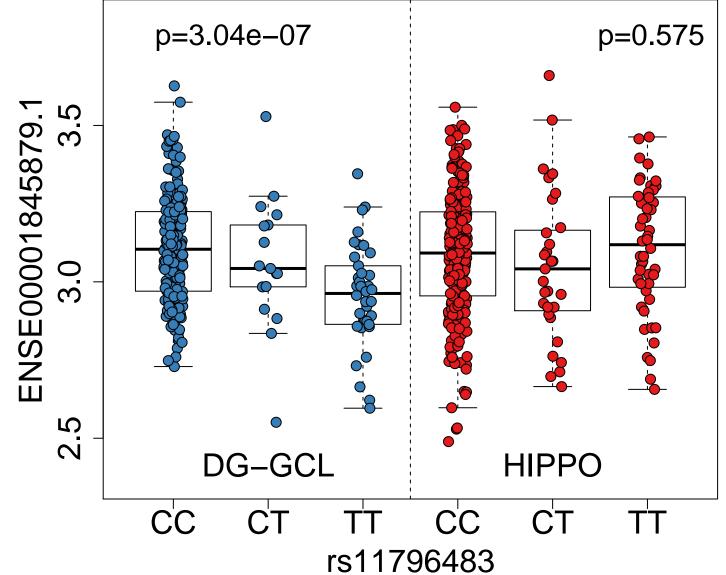


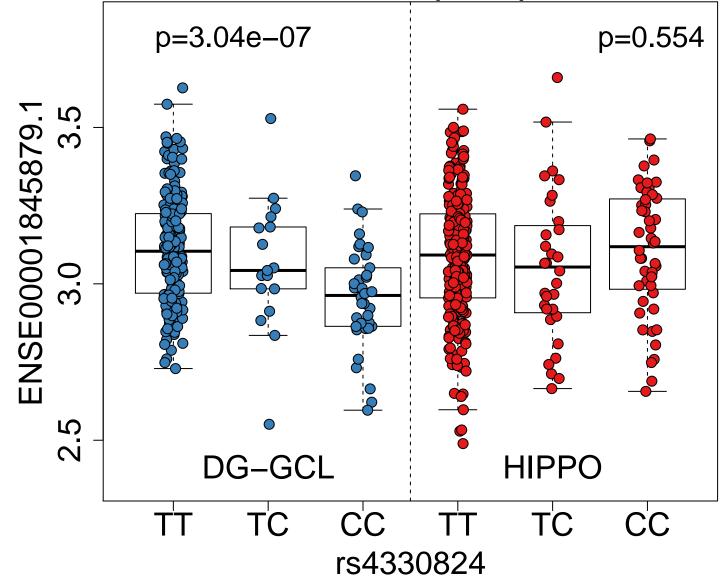


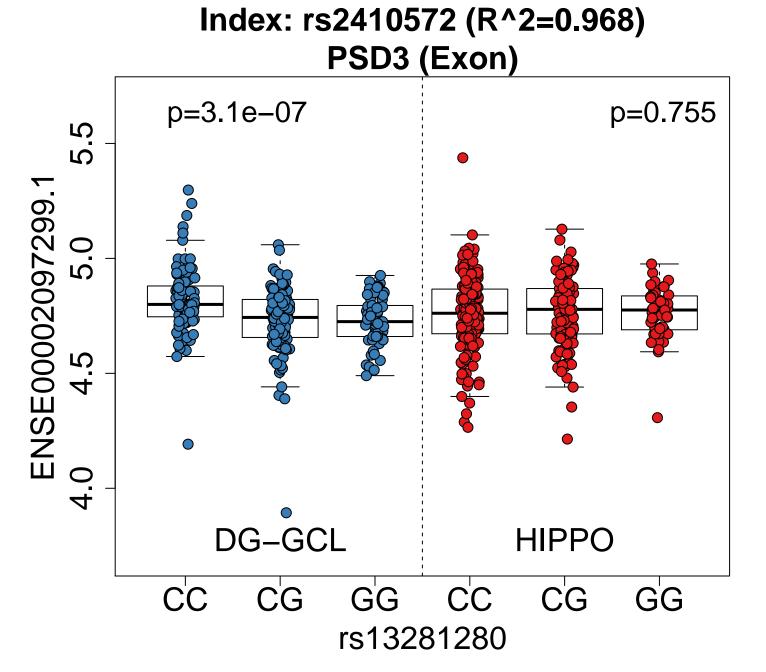


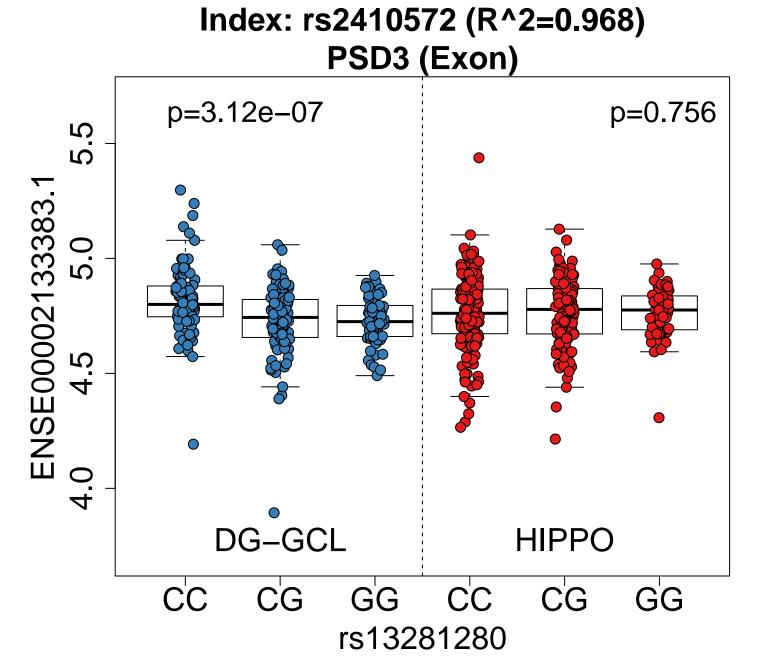


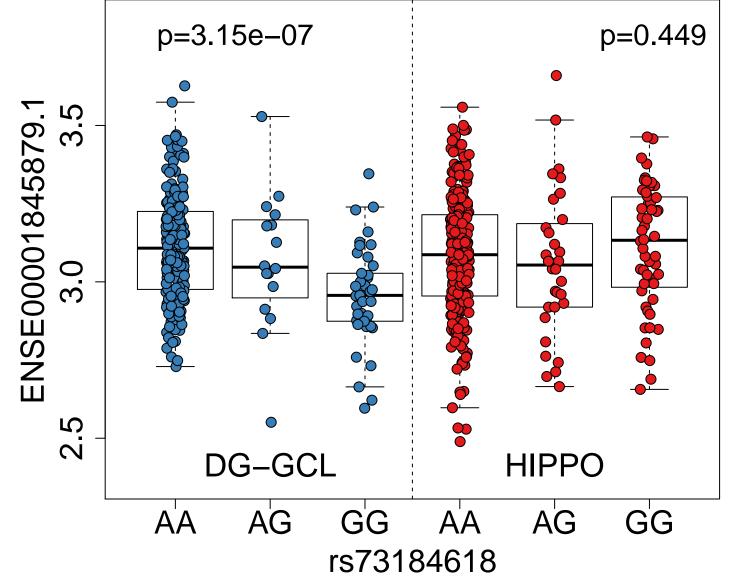


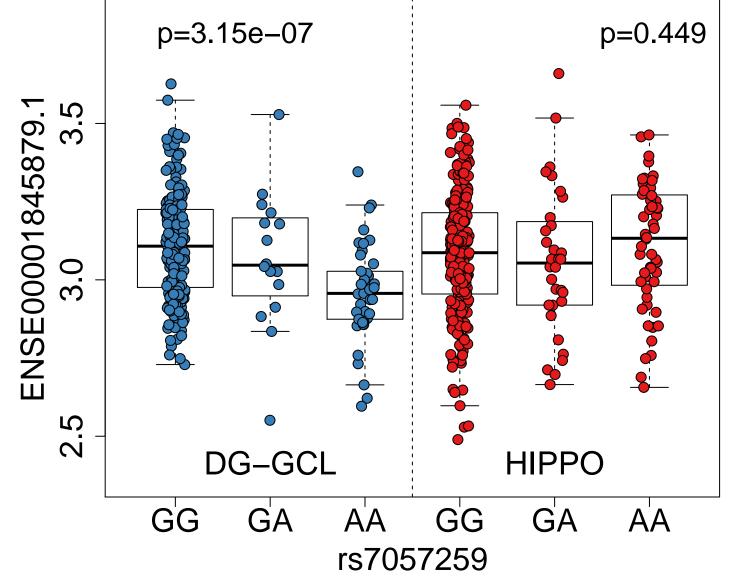


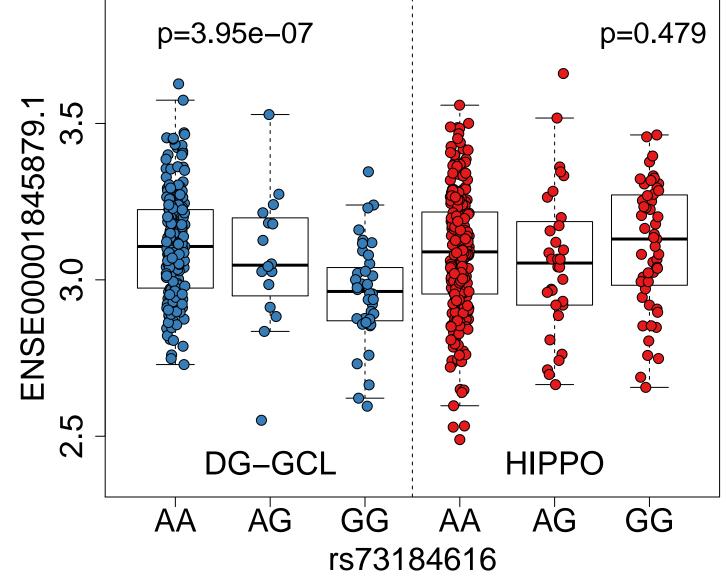


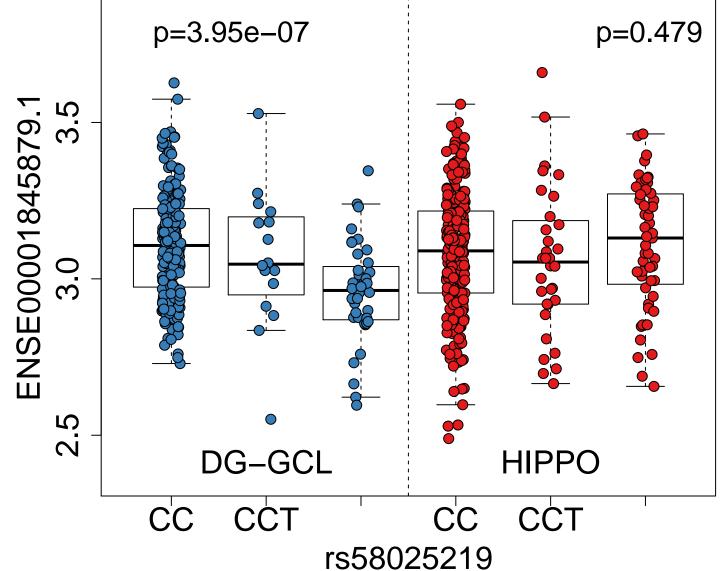


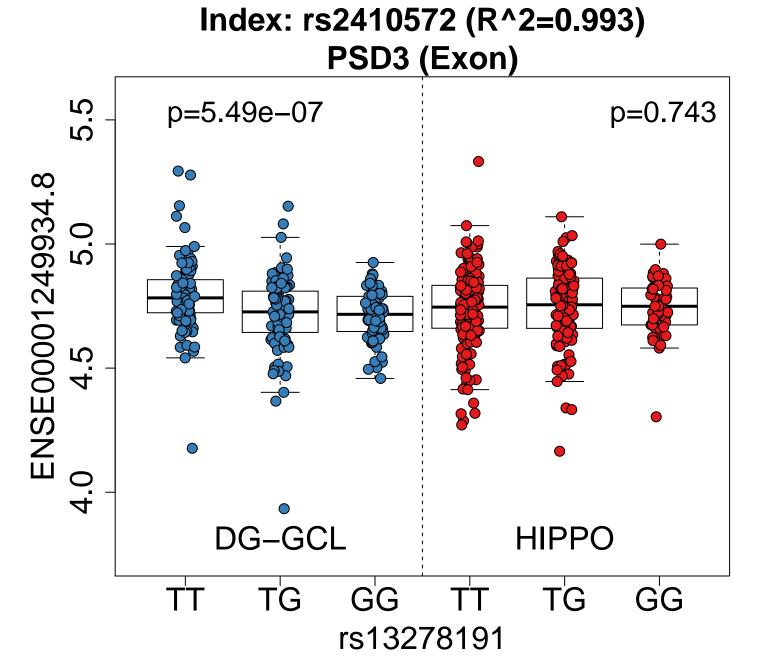


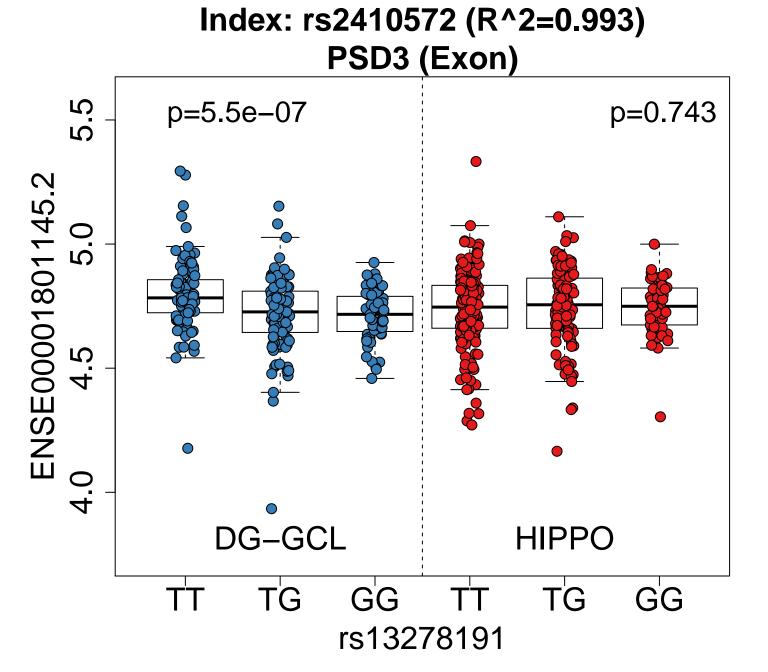


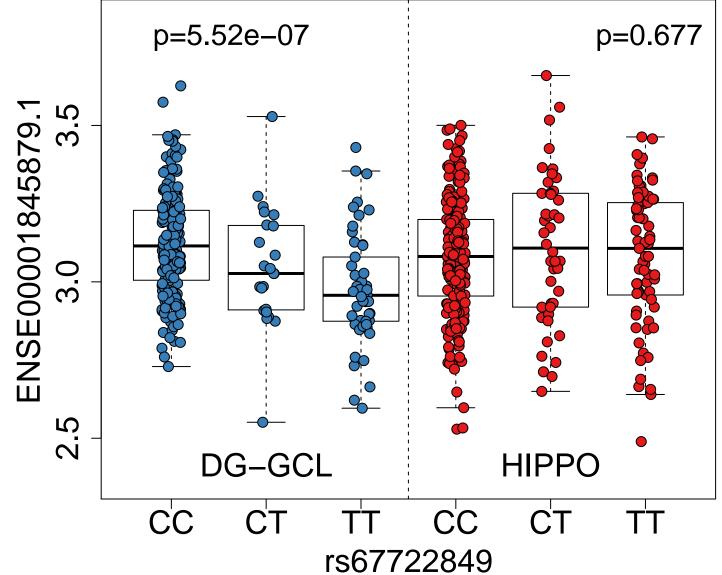


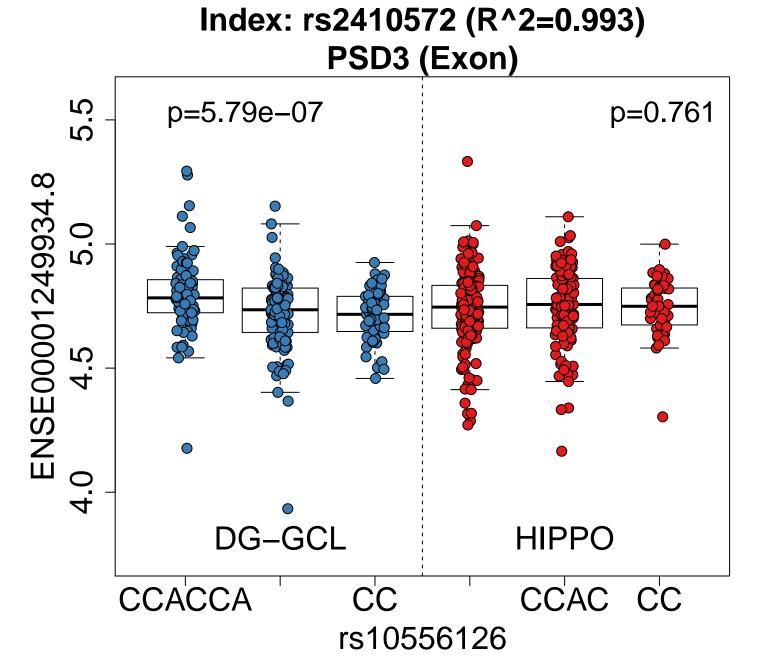


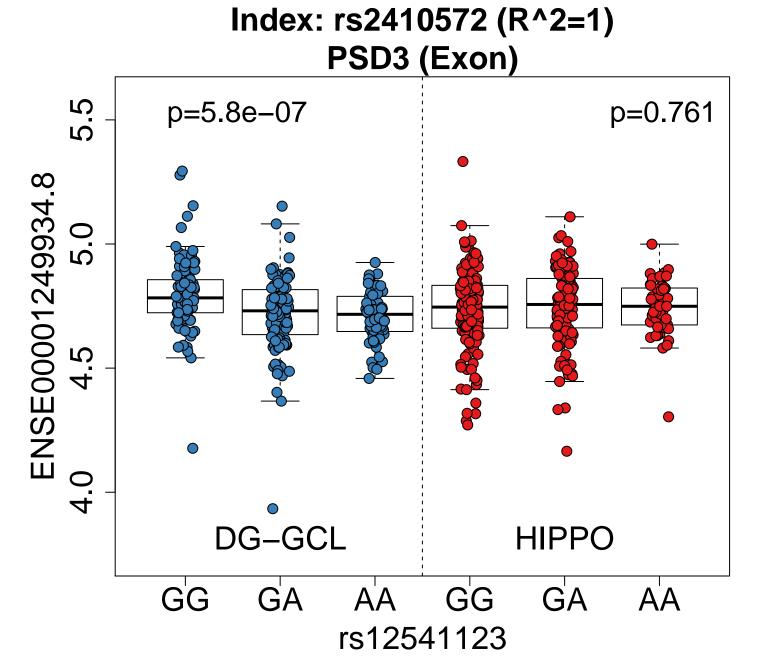


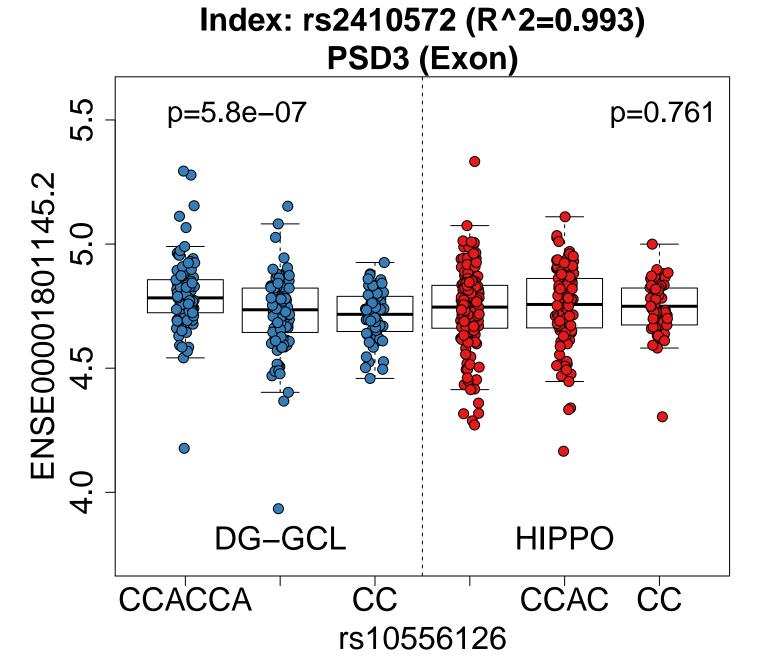


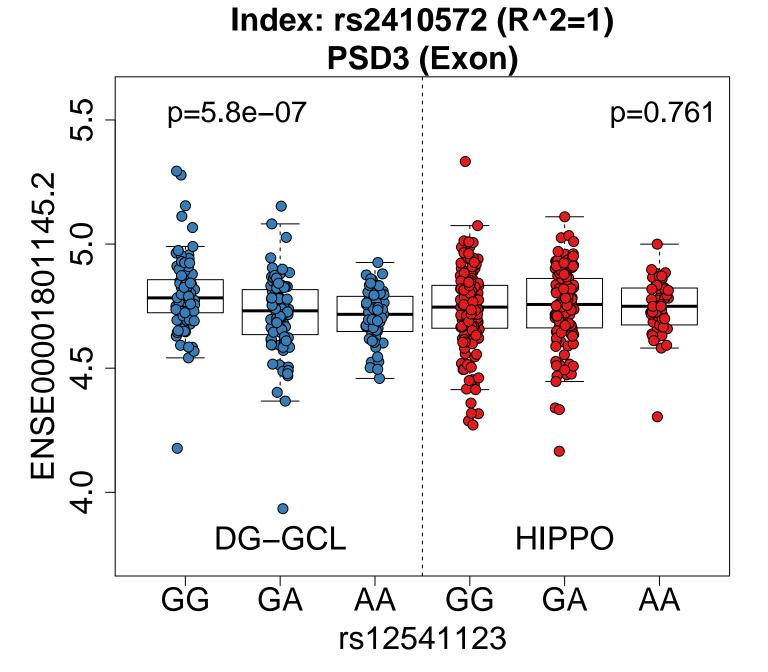


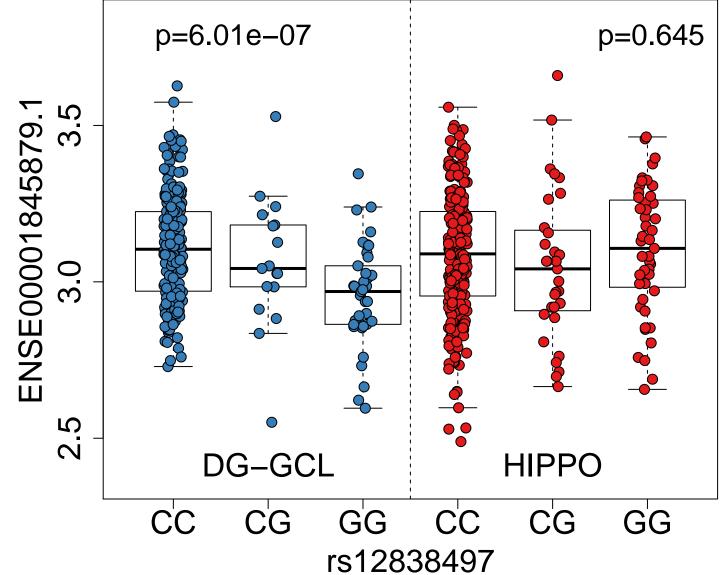


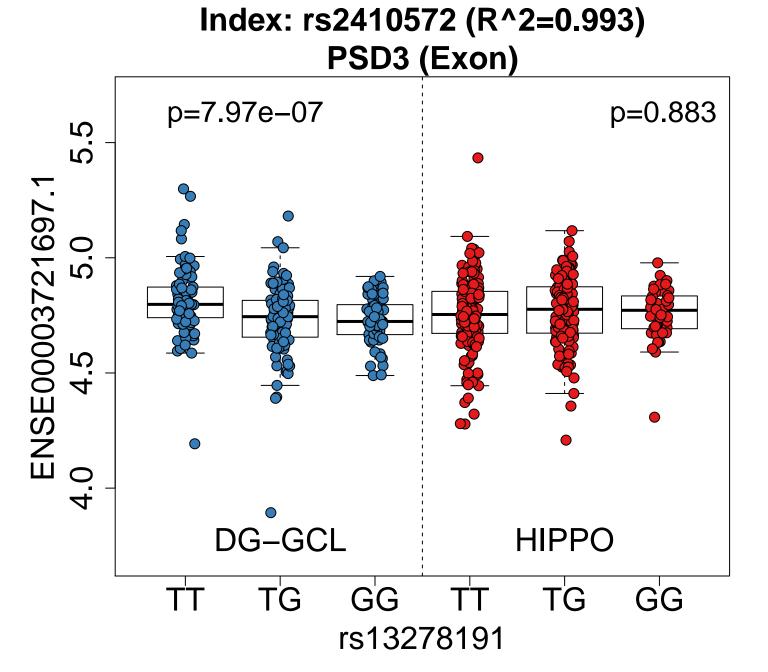


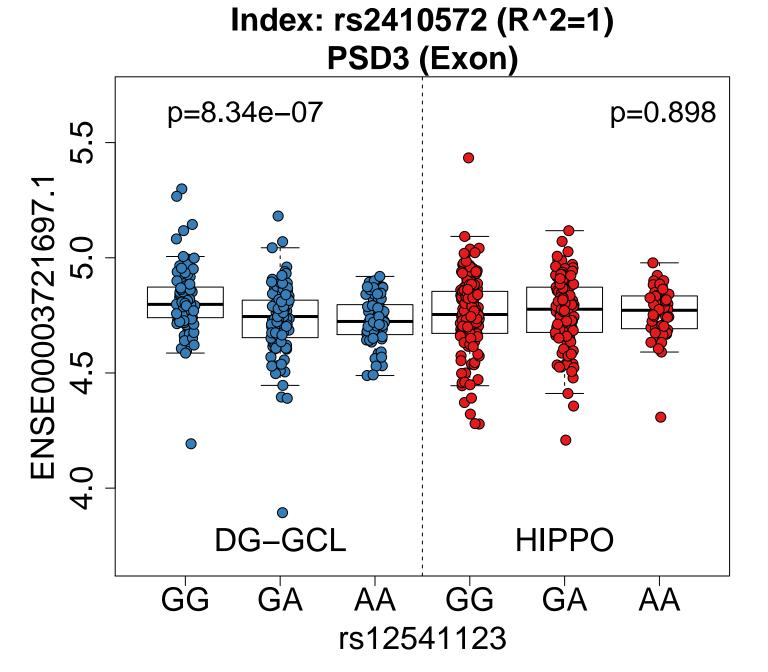


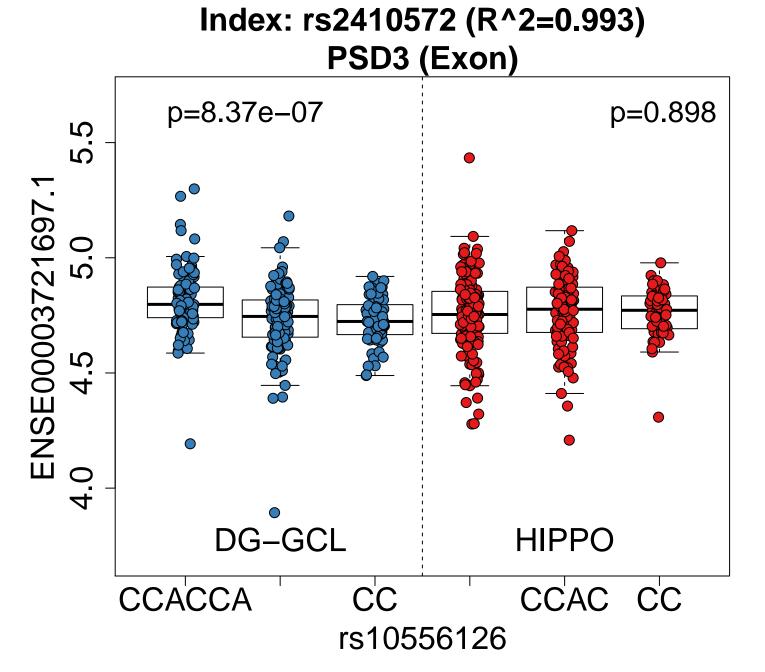


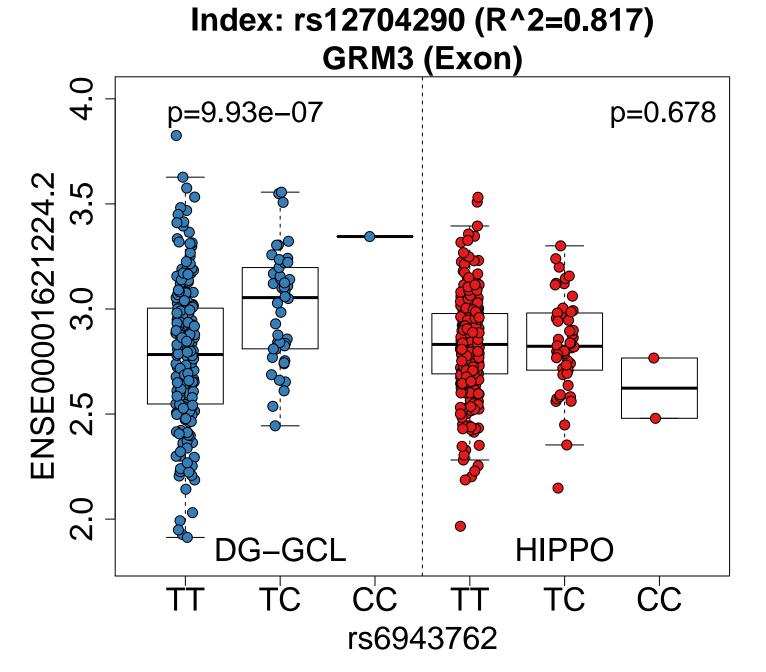


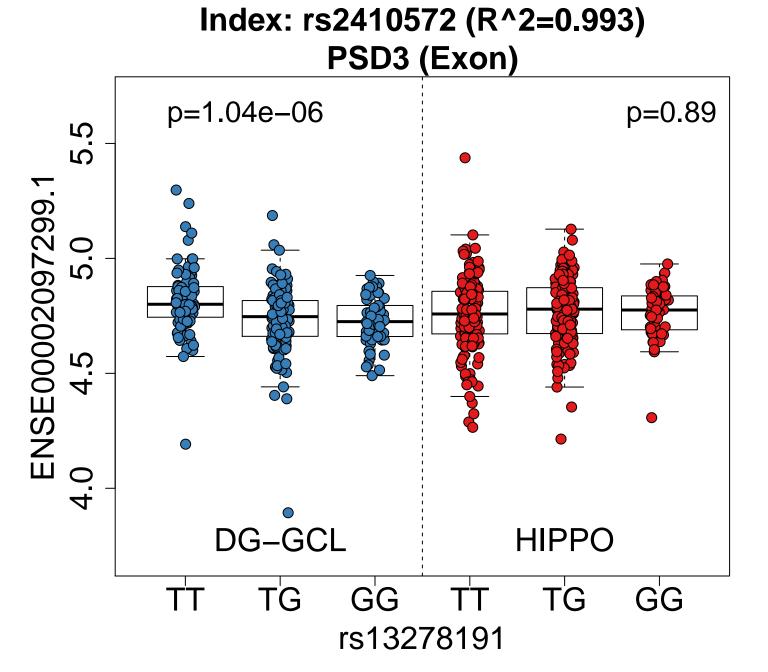


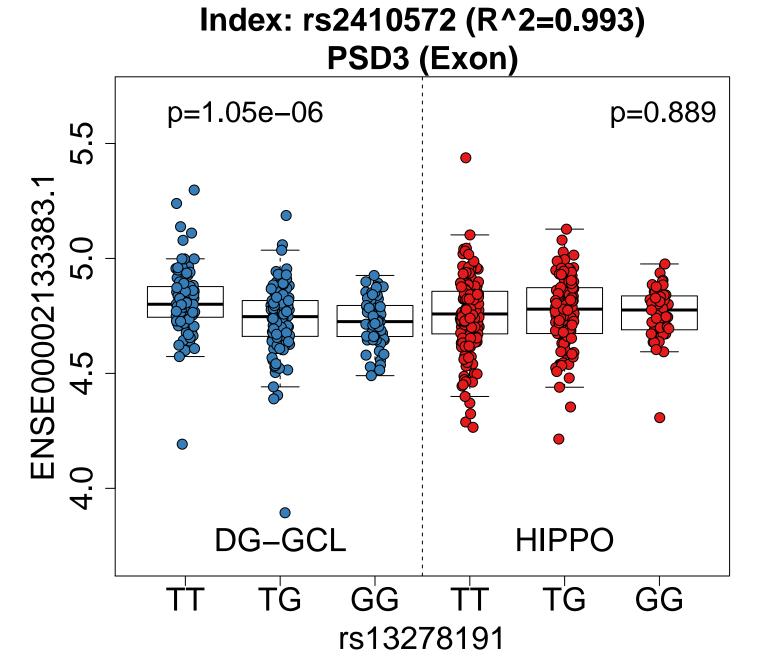




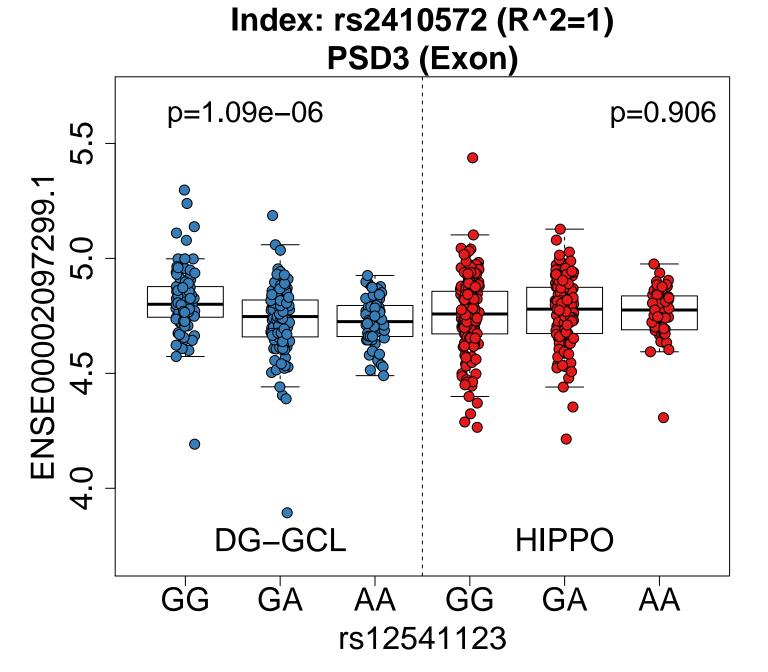


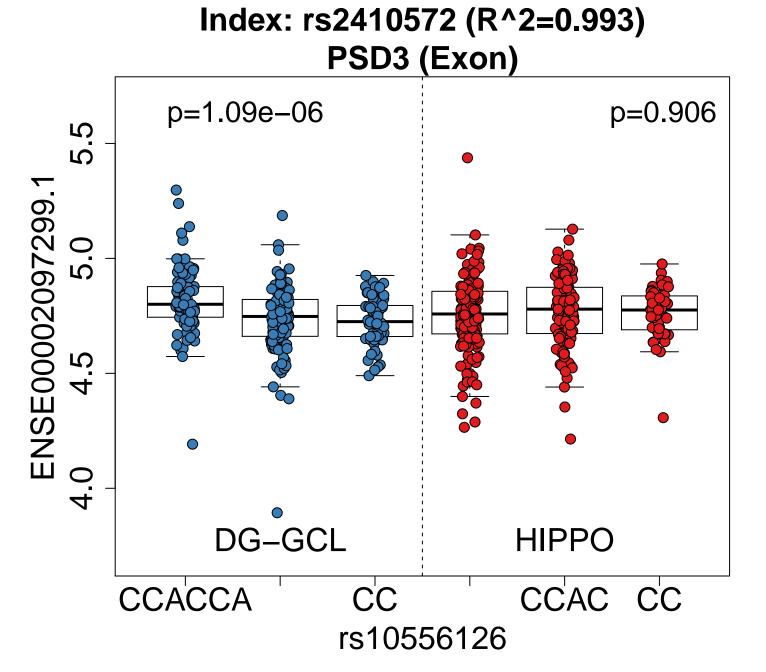


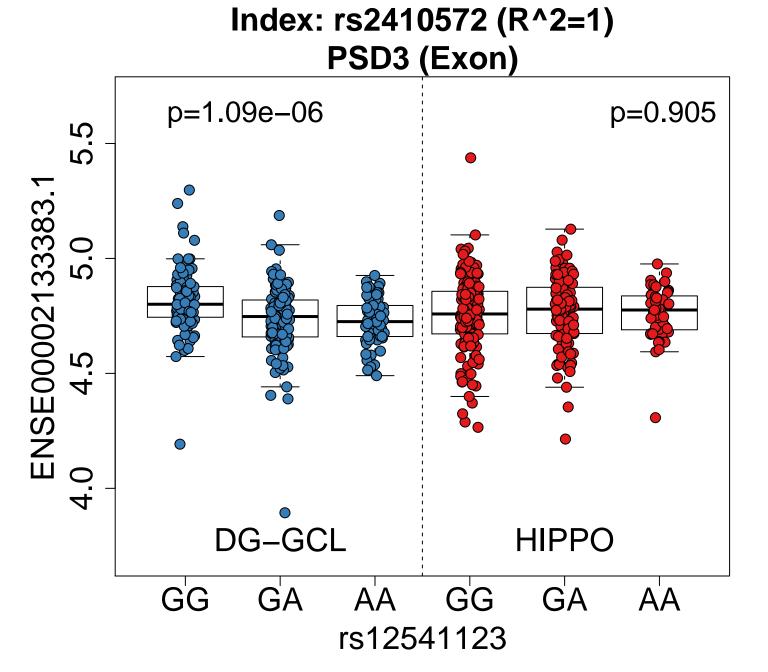


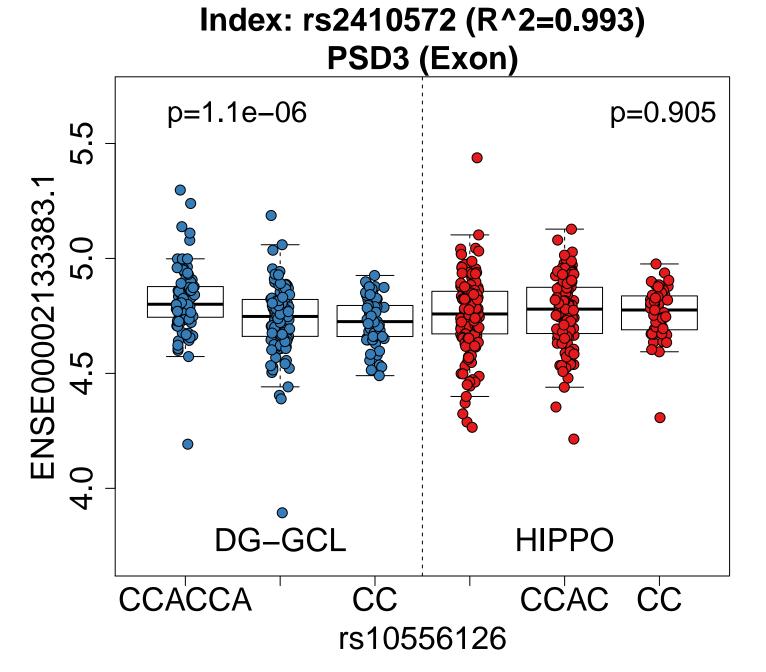


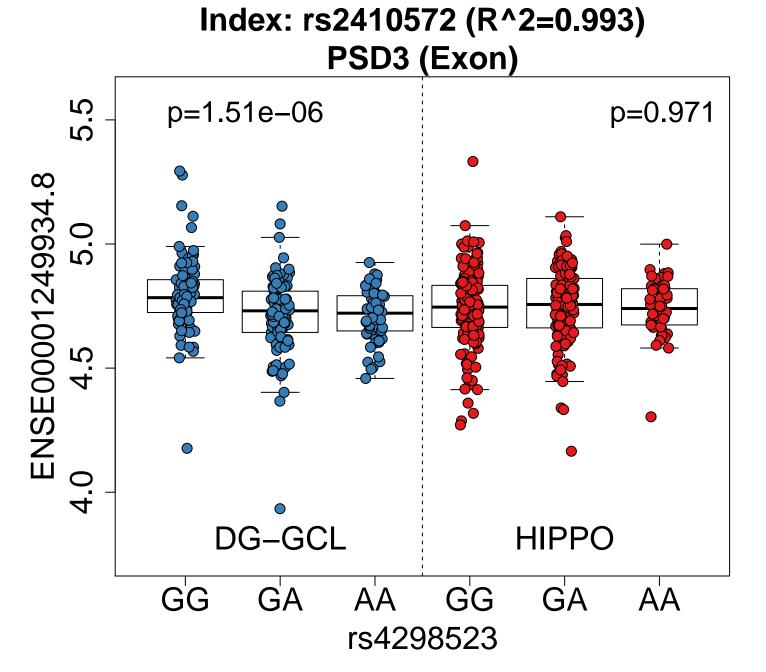
Index: rs2410572 (R^2=0.968) PSD3 (Gene) p=1.07e-06p=0.727ENSG00000156011.16 5.5 DG-GCL **HIPPO** 4.5 CC C[']G CC GG CG GG rs13281280

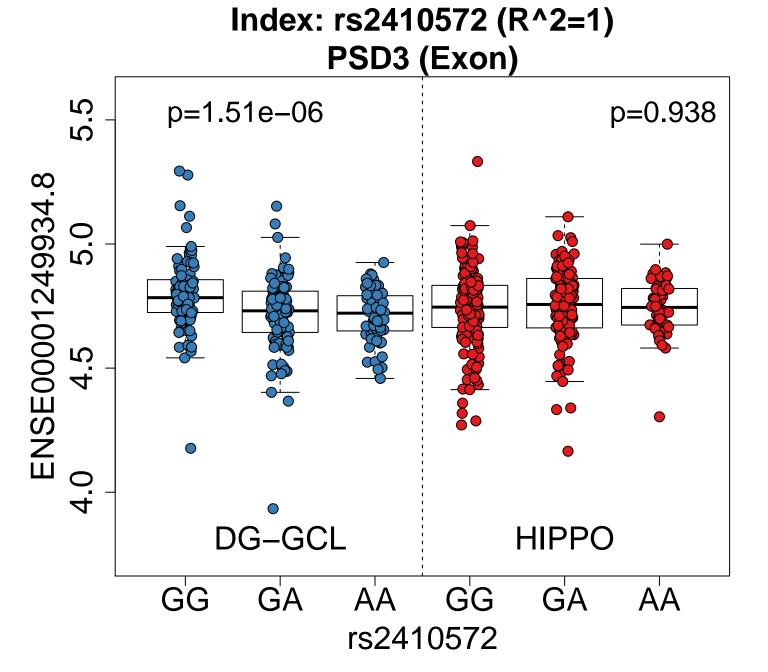


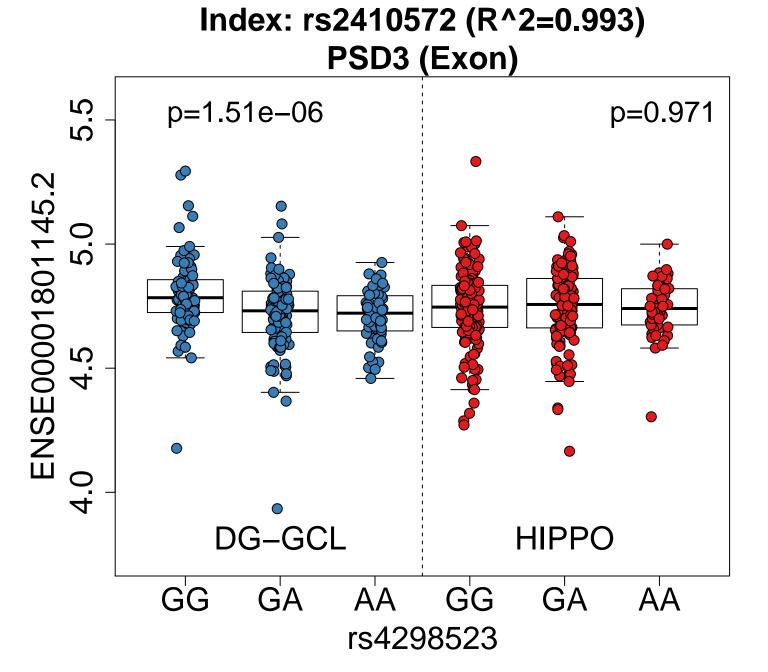


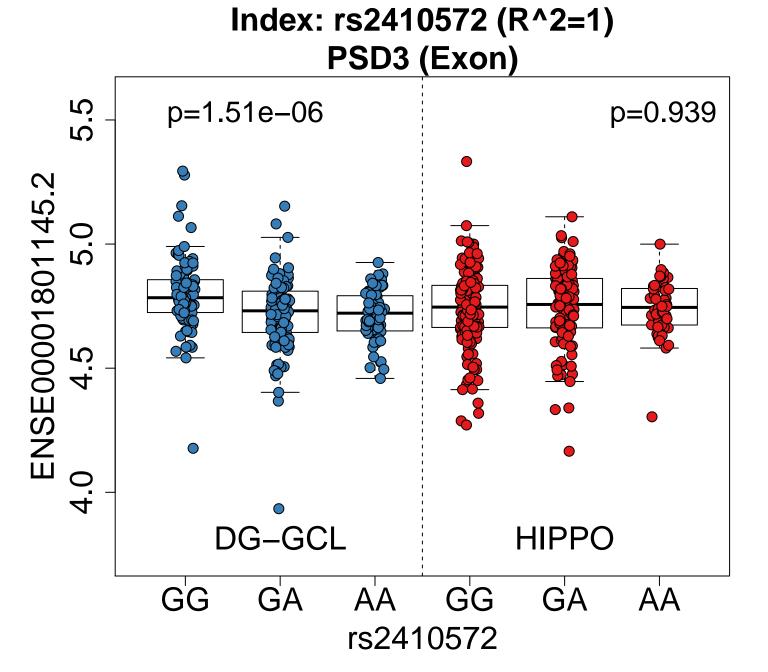


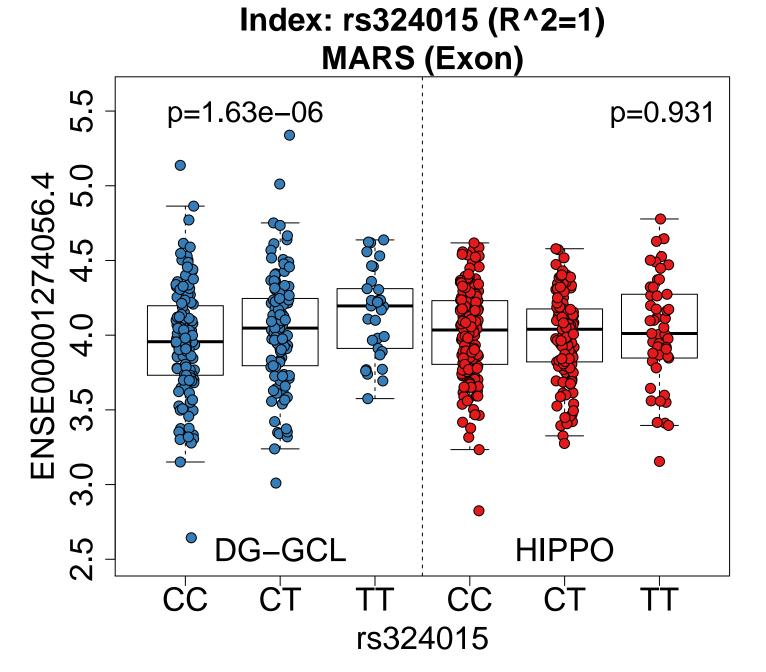






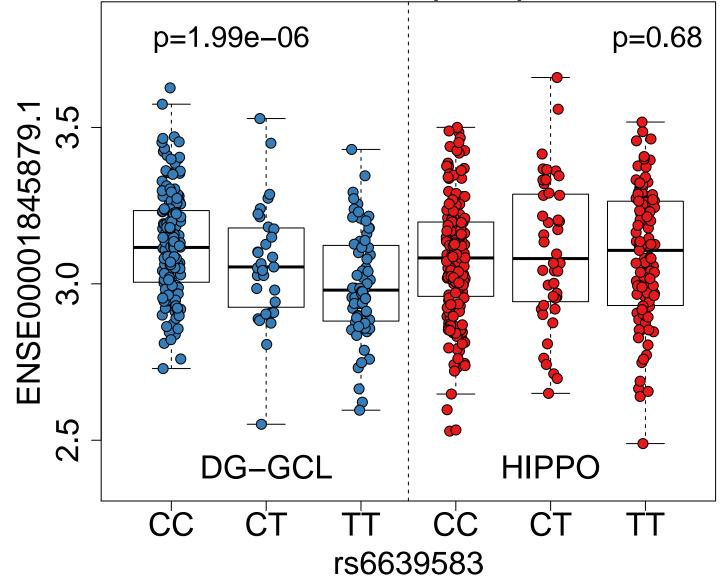


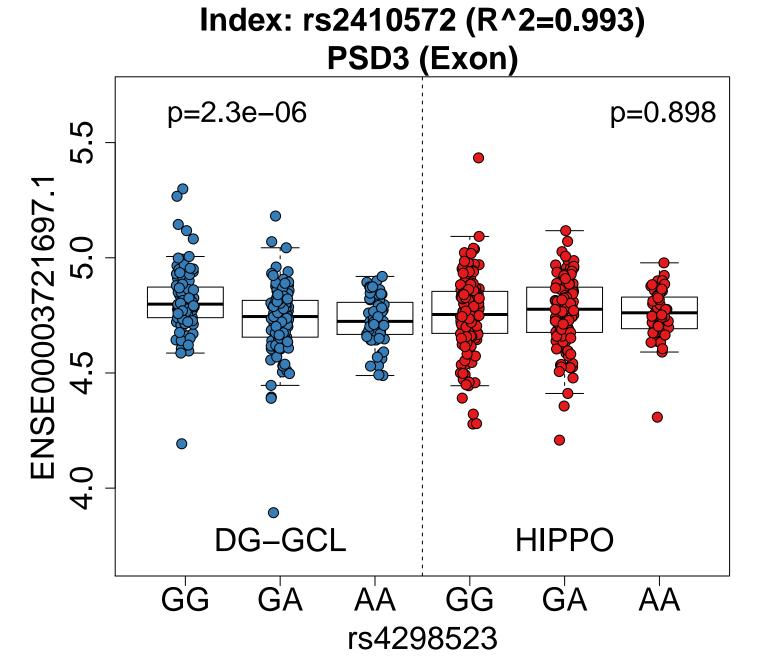


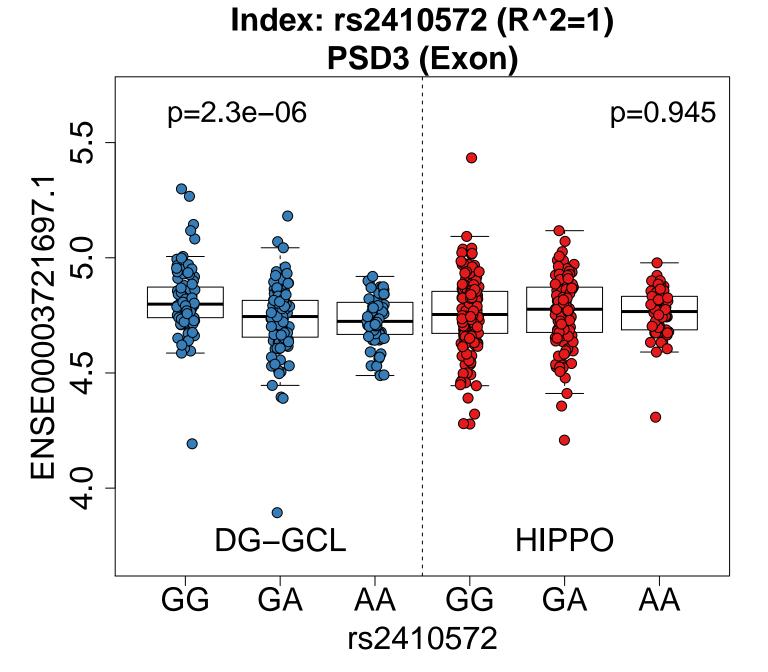


Index: rs12704290 (R^2=0.817) GRM3 (Exon) p=1.71e-06p=0.7544.5 ENSE00001691302.1 3.5 2.5 DG-GCL **HIPPO** CC TC CC TC rs6943762

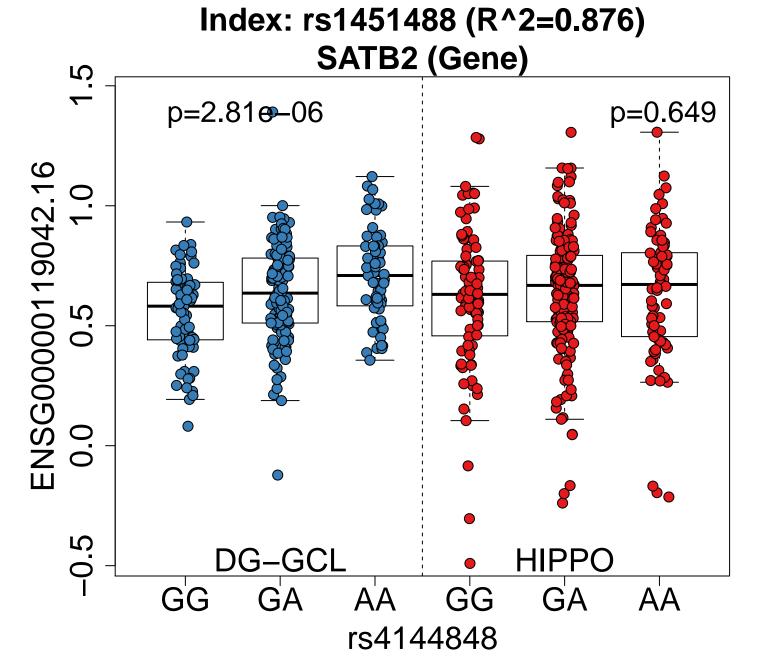
Index: rs12009217 (R^2=0.809) NLGN4X (Exon)



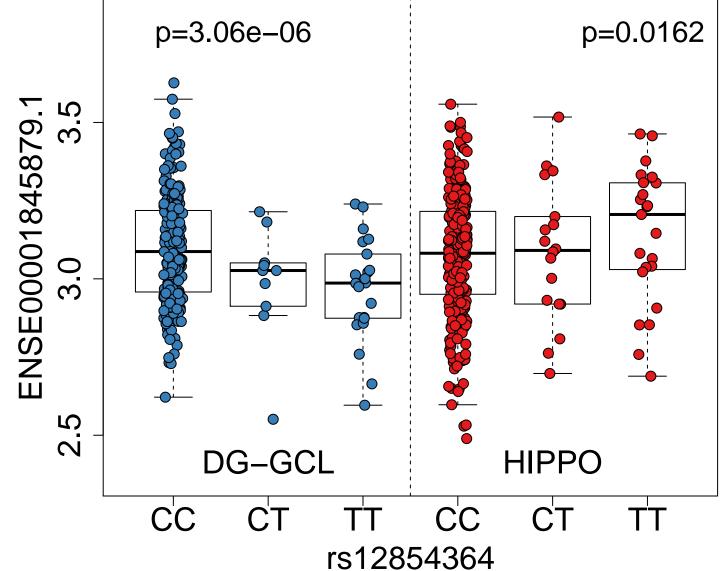


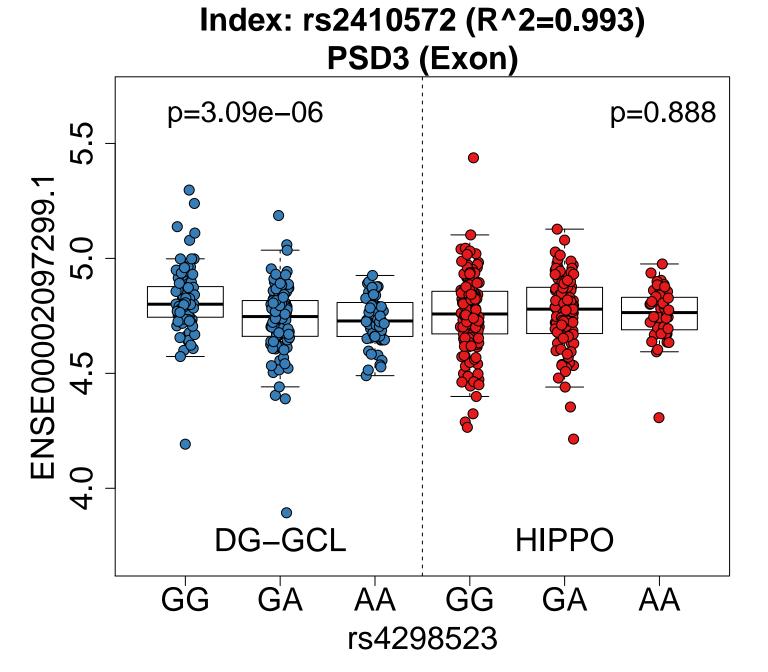


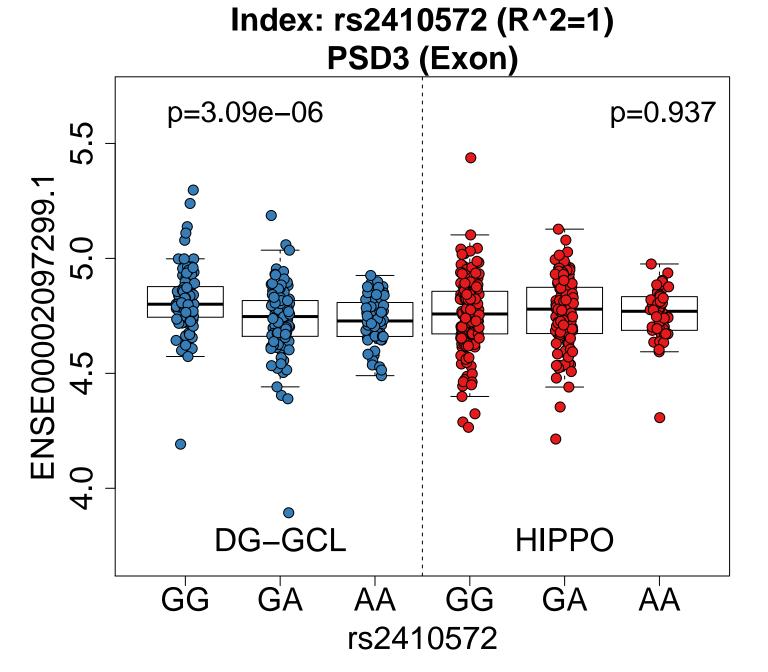
Index: rs12704290 (R^2=0.817) GRM3 (Exon) p=2.35e-06p=0.7464.5 ENSE00001750997.1 3.5 2.5 DG-GCL **HIPPO** CC TC CC TC rs6943762

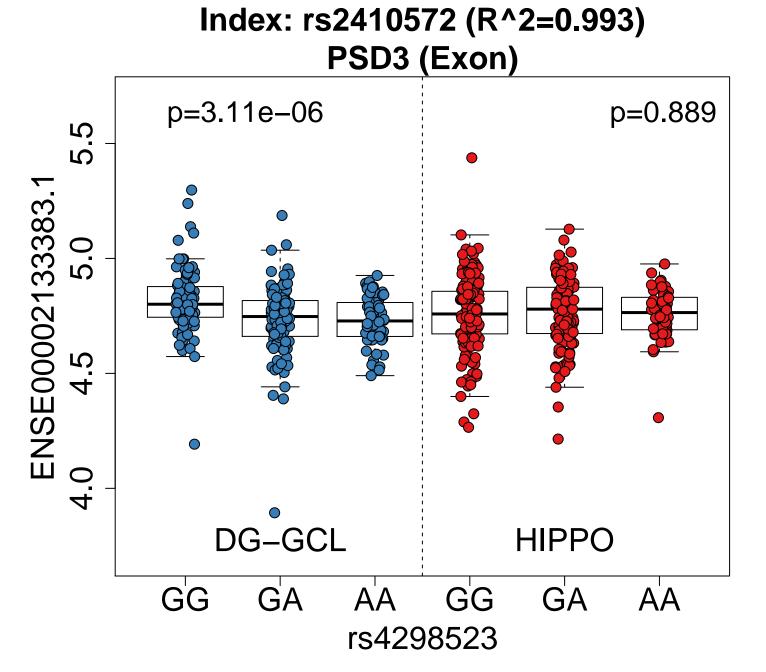


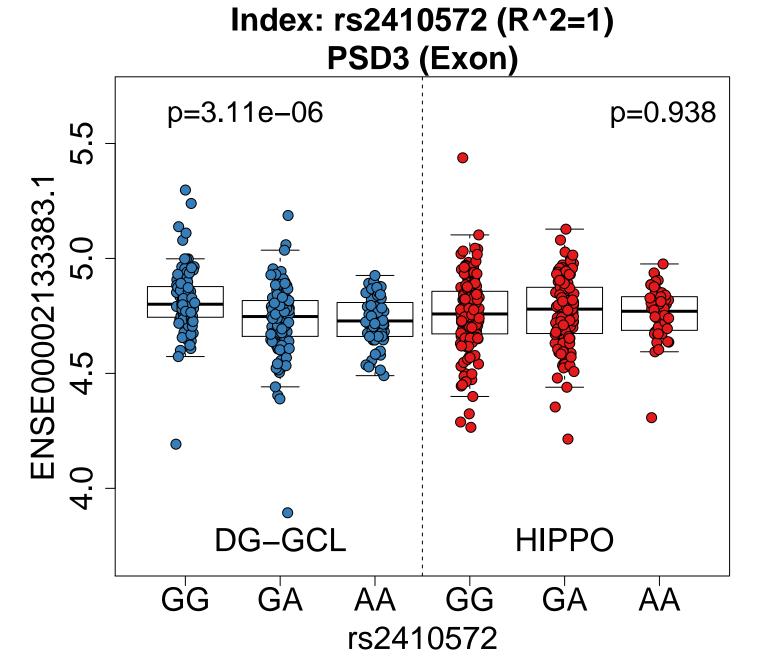
Index: rs12009217 (R^2=0.958) NLGN4X (Exon)



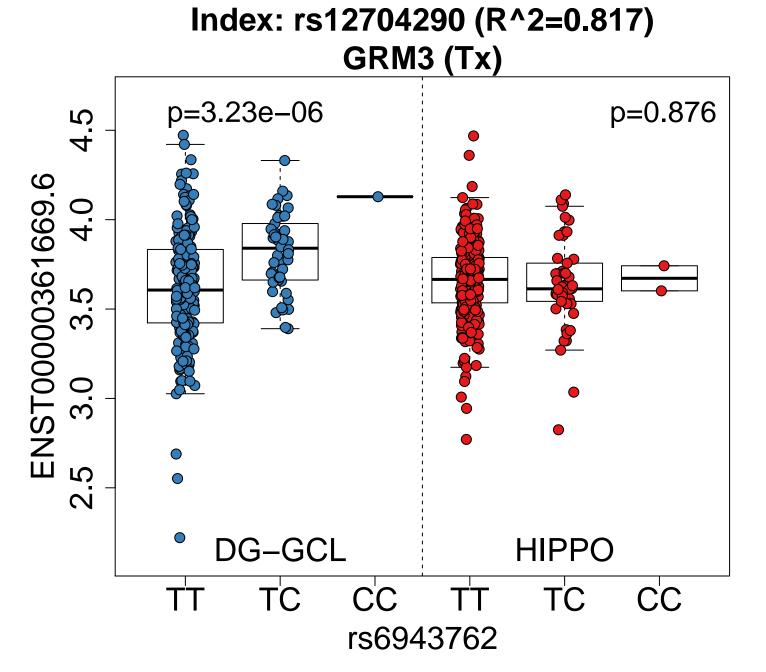




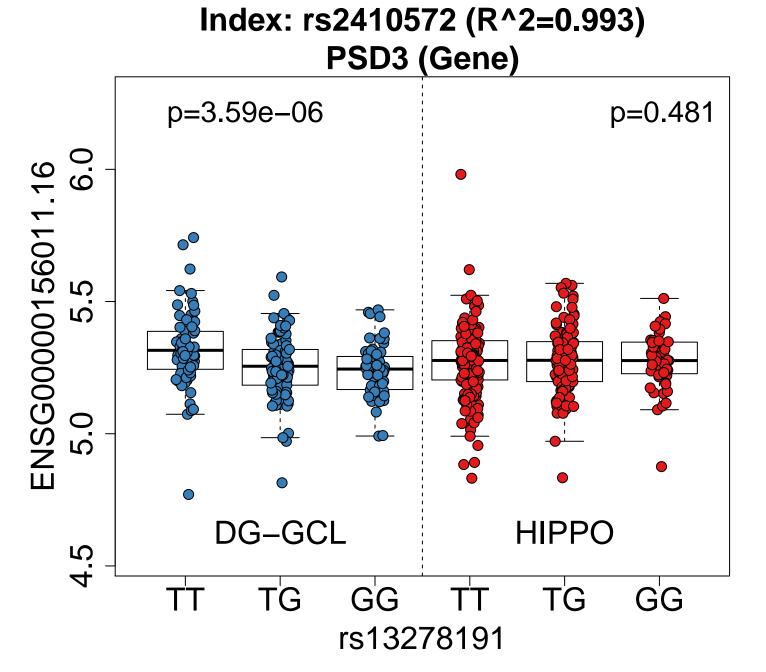




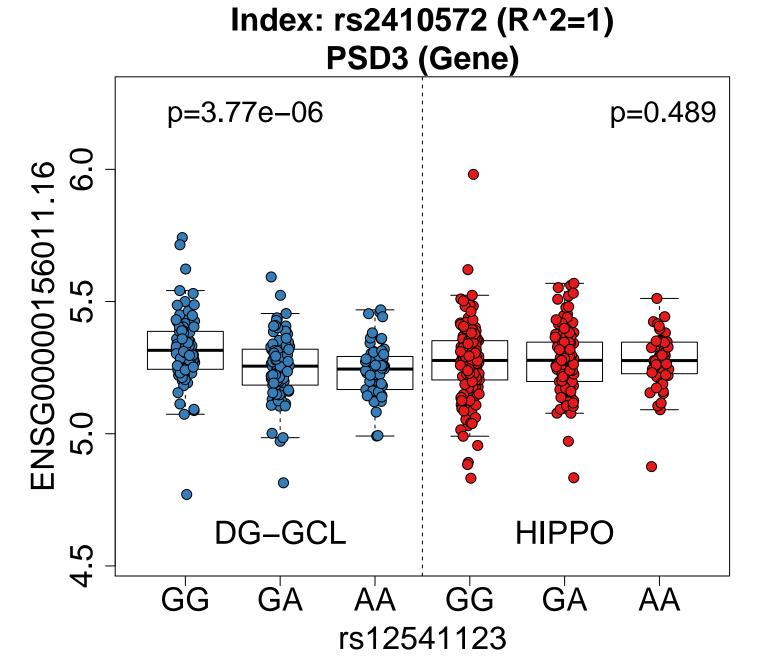
Index: rs7010876 (R^2=0.848) MMP16 (Exon) p=3.23e-06p=0.221ENSE00001260017.7 1.6 DG-GCL **HIPPO** 1.2 GΑ GΑ GG AA GG rs10955556

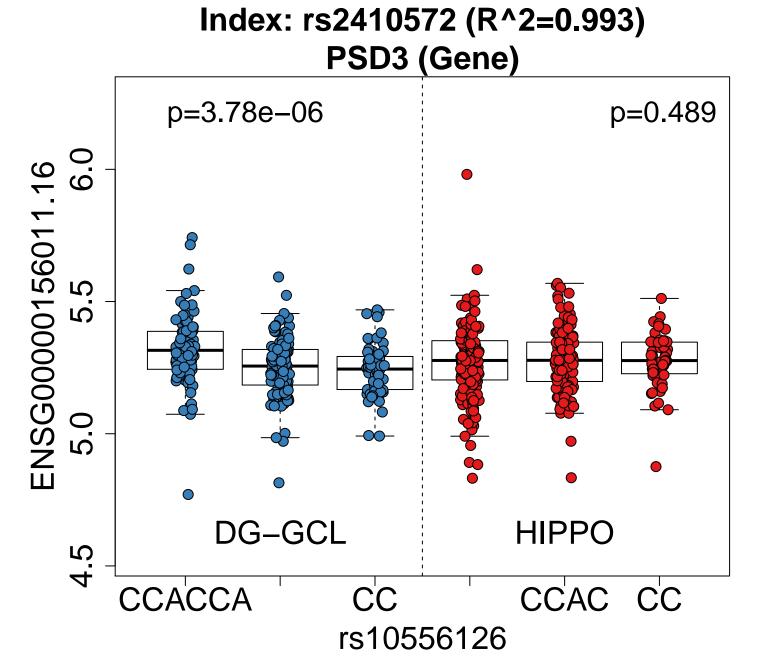


Index: rs7010876 (R^2=0.843) MMP16 (Exon) p=3.31e-06p=0.193ENSE00001260017.7 1.6 DG^eGCL **HIPPO** C_C C_C rs1915018



Index: rs7010876 (R^2=0.843) MMP16 (Gene) p=3.68e-06p=0.189ENSG00000156103.15 3.0 2.6 DG-GCL **HIPPO** 2.2 GG AAAG GG Α̈́A AG rs4043663



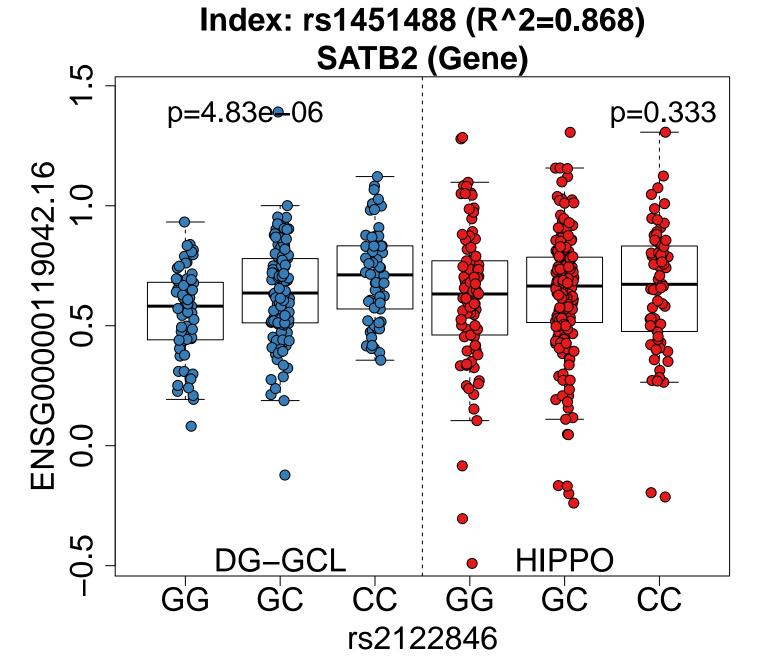


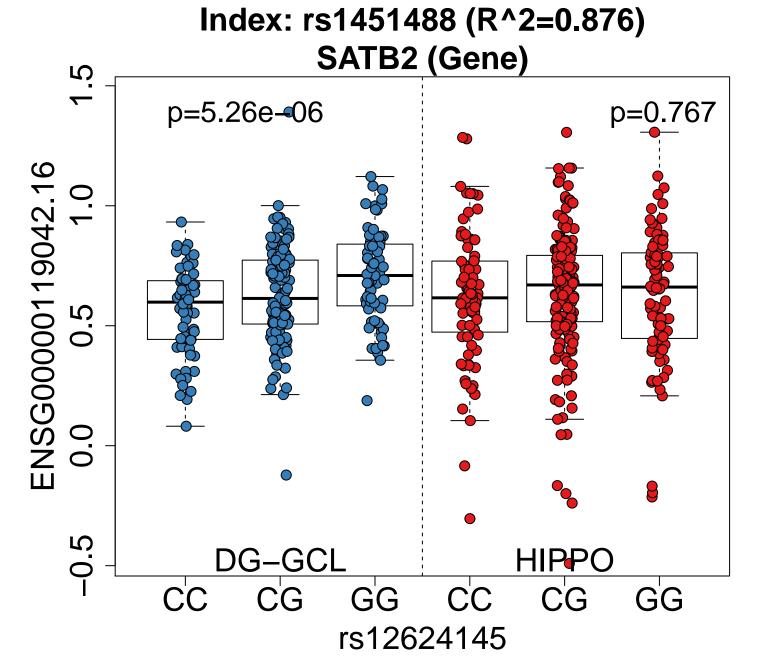
Index: rs7010876 (R^2=0.843) MMP16 (Exon) p=3.82e-06p=0.0844ENSE00001260017.7 1.6 DG-GCL **HIPPO** 1.2 CC CA CC CA AA rs10955542

Index: rs2007044 (R^2=0.846) **CACNA1C** (Gene) 3.6 p=4.27e-06p=0.485ENSG00000151067.21 2.8 DG-GCL **HIPPO** CC CC rs7297582

Index: rs7010876 (R^2=0.843) MMP16 (Exon) p=4.37e-06p=0.0748ENSE00001260017.7 1.6 DG-GCL **HIPPO** 1.2 ΑA AG GG Α̈́A GG AG rs4043663

Index: rs7010876 (R^2=0.843) MMP16 (Gene) p=4.38e-06p=0.209ENSG00000156103.15 3.0 2.6 DG-GCL **HIPPO** CC CC CA CA AA rs10955542

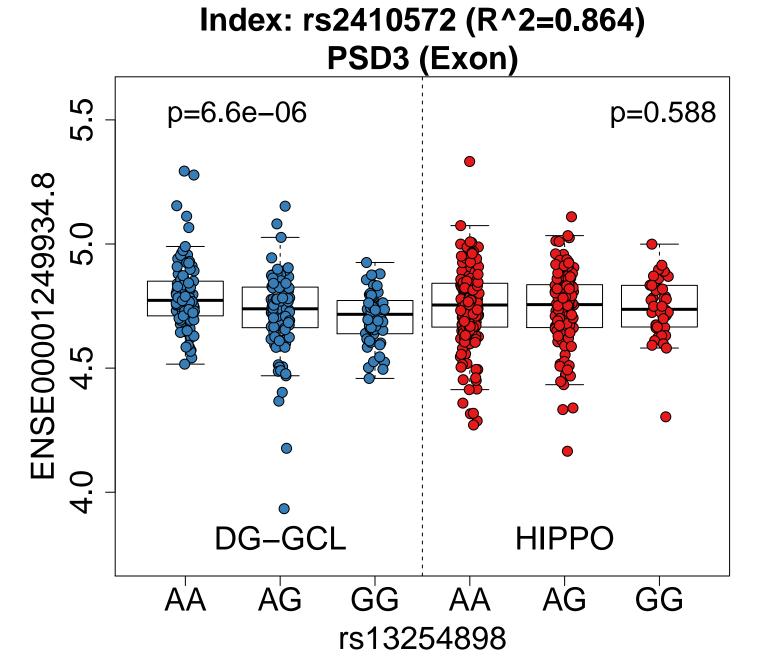


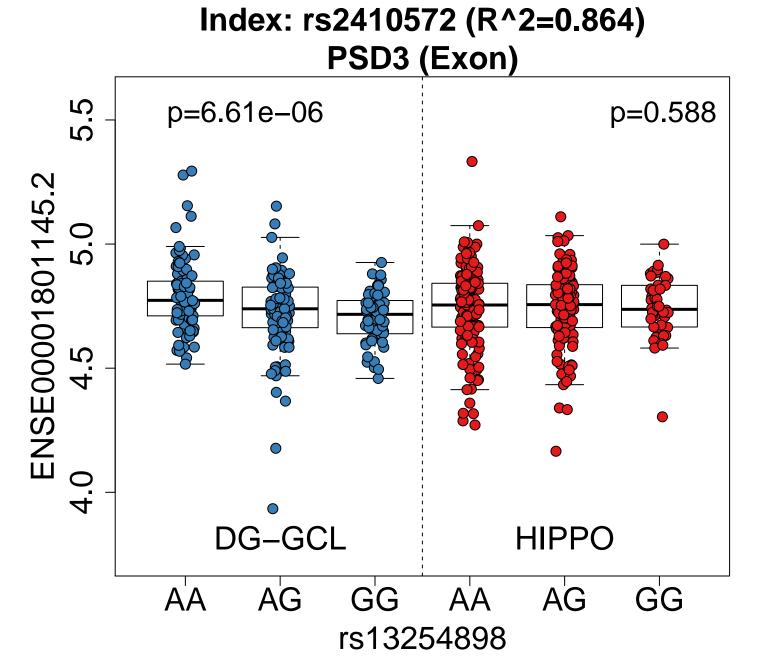


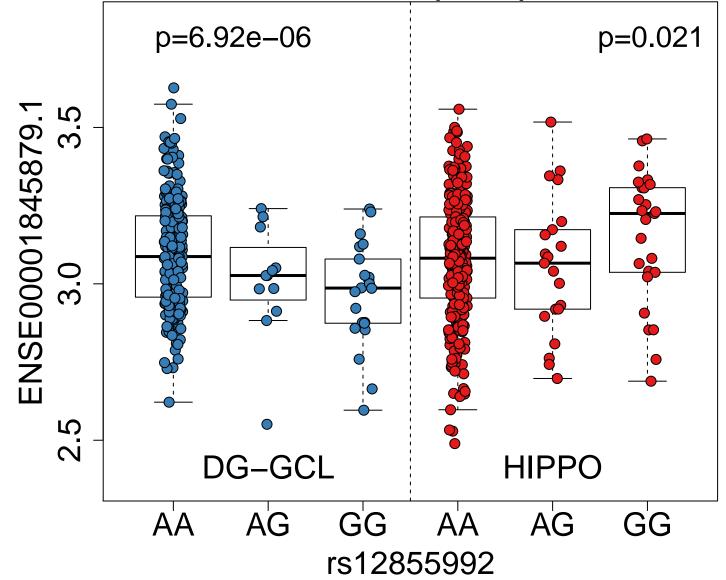
Index: rs12009217 (R^2=0.974) **NLGN4X (Gene)** 4.2 p=6.23e-06p=0.793ENSG00000146938.14 3.8 3.6 DG-GCL **HIPPO** 3.2 GG GG GΑ ΑA GA rs7052989

Index: rs7010876 (R^2=0.848) MMP16 (Exon) p=6.23e-06 p=0.157ENSE00001260017.7 1.6 DG-GCL **HIPPO** 1.2 C_C CC CA CA ΑA rs3844198

Index: rs1347692 (R^2=0.98) KCTD18 (Tx) p=6.34e-06p = 0.65ENST00000478816.5 1.6 1.8 2.0 2.2 DG-GCL **HIPPO** CC CC TC TC rs1561296

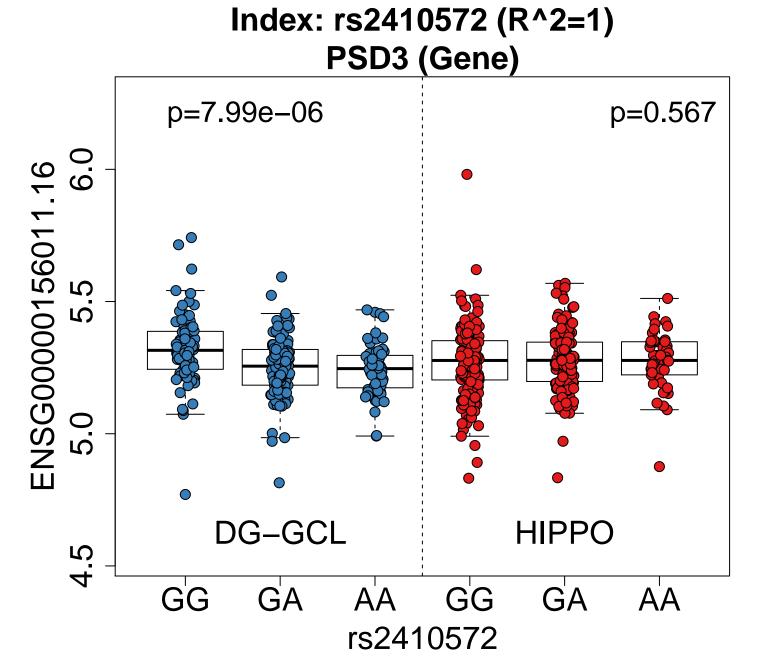


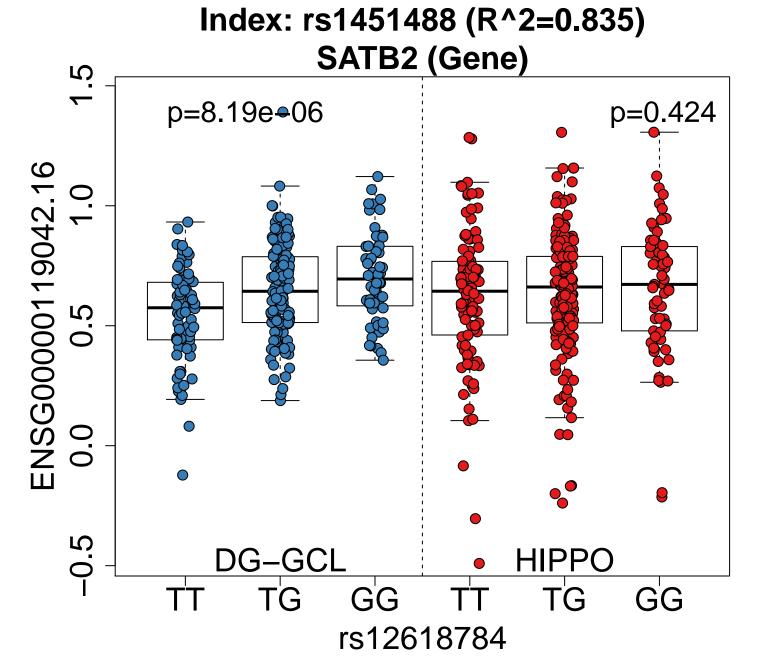


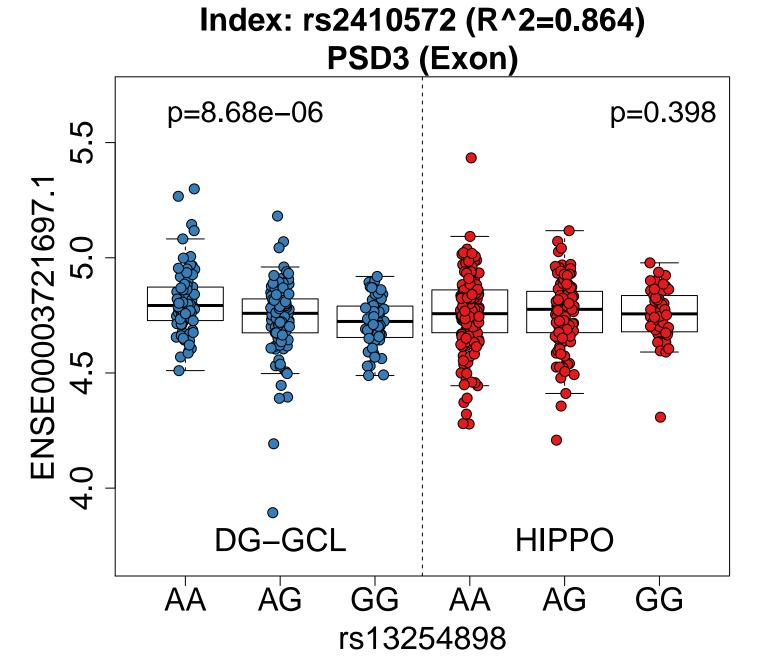


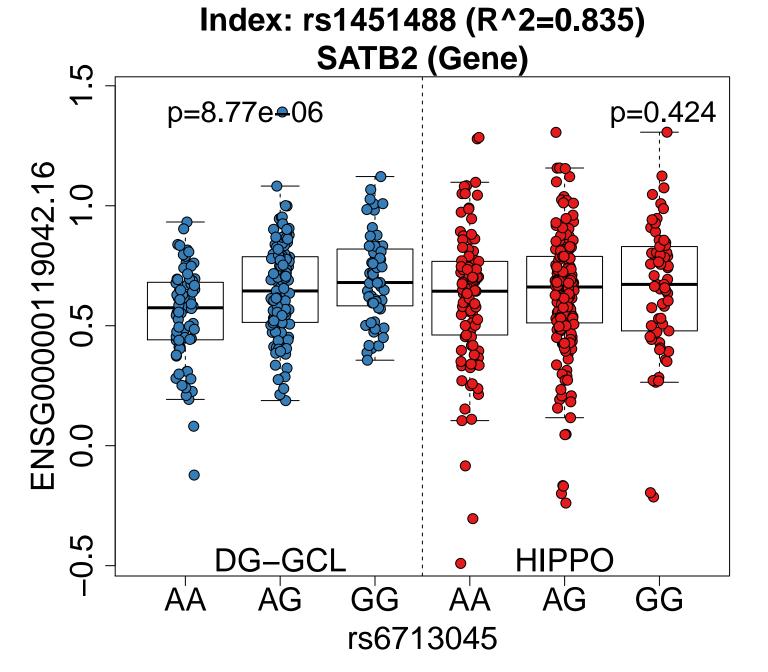
Index: rs7010876 (R^2=0.843) MMP16 (Gene) p=7.88e-06p=0.257ENSG00000156103.15 3.0 2.6 DG-GCL **HIPPO** AATA AA TA rs1915017

Index: rs2410572 (R^2=0.993) PSD3 (Gene) p=7.99e-06p=0.611ENSG00000156011.16 5.5 DG-GCL **HIPPO** 4.5 AAGG GA ΑA GG GA rs4298523

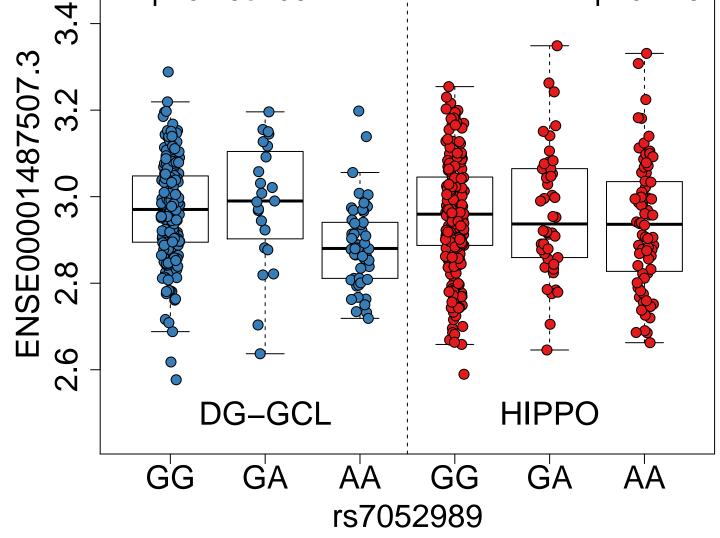




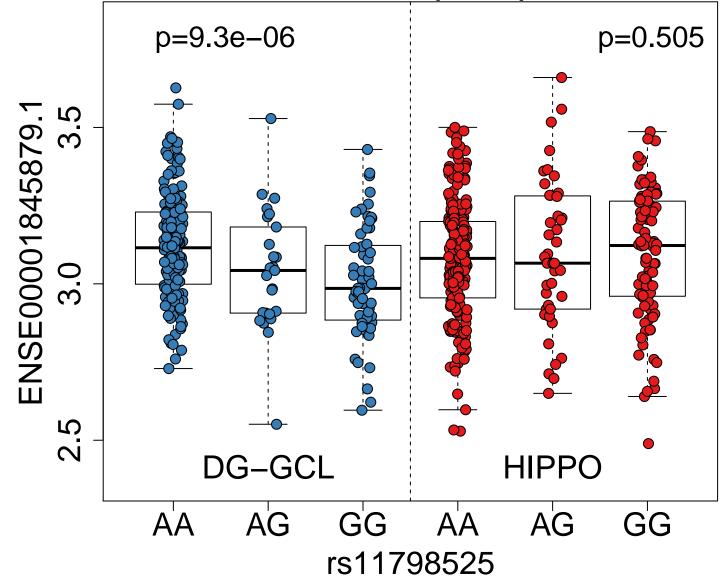


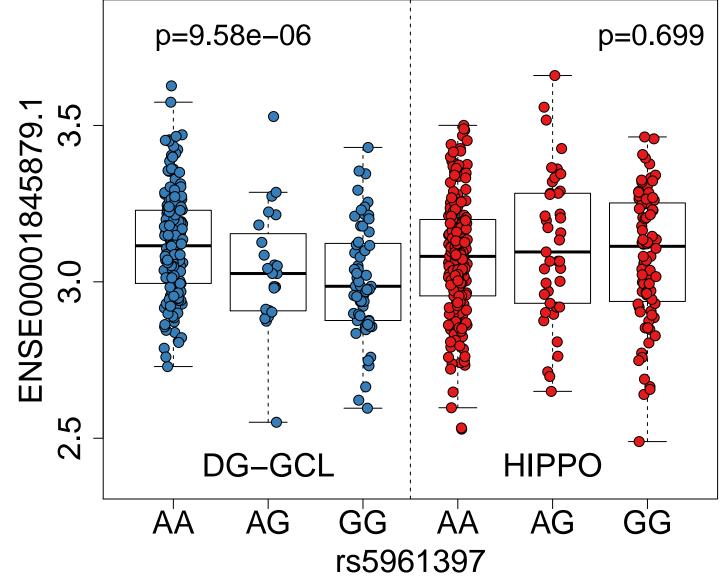


Index: rs12009217 (R^2=0.974) **NLGN4X (Exon)** p=9.16e-06p=0.746DG-GCL **HIPPO**



Index: rs7010876 (R^2=0.843) MMP16 (Exon) p=9.22e-06 p=0.0945ENSE00001260017.7 1.6 DG^eGCL **HIPPO** 1.2 AATA TA AA rs1915017

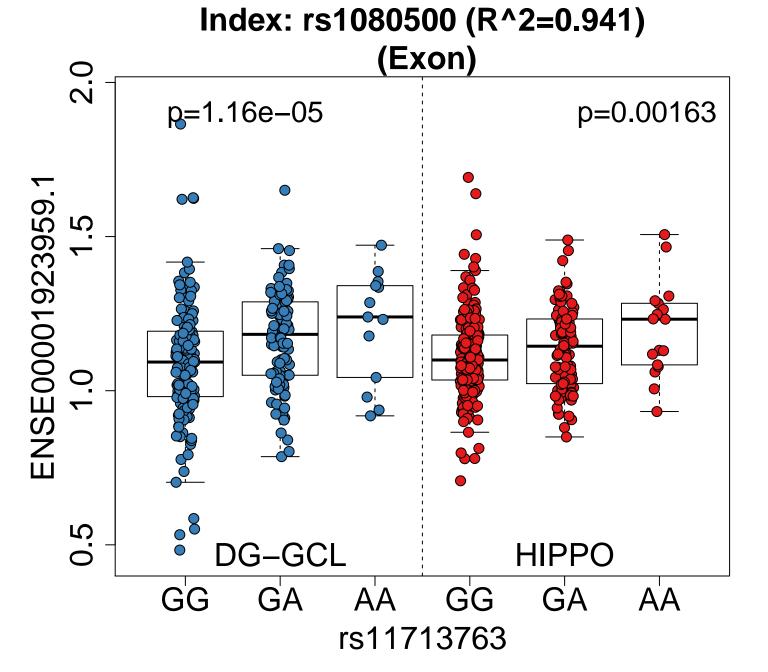


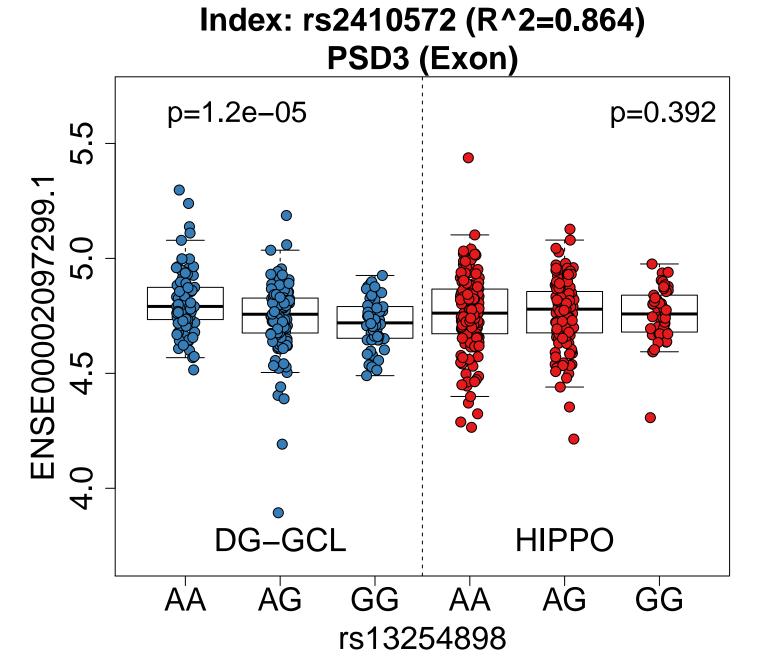


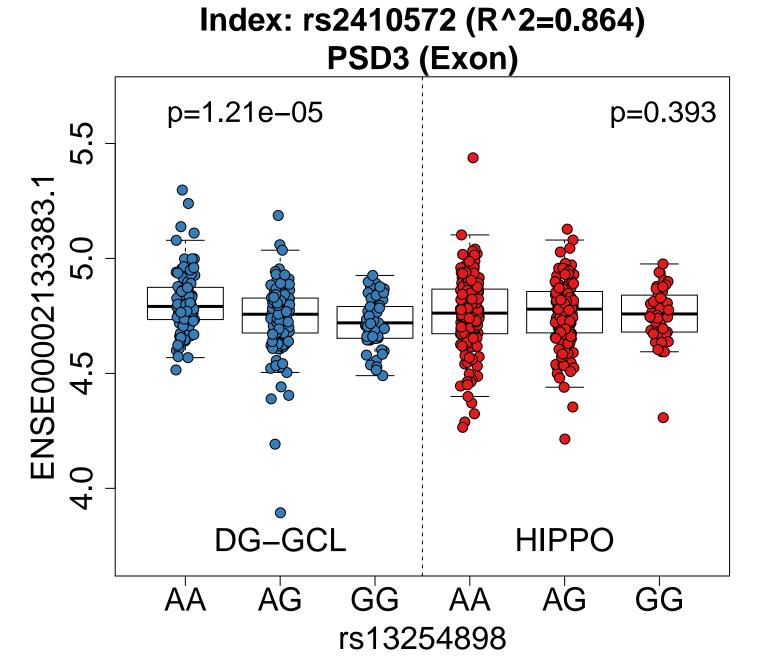
Index: rs12009217 (R^2=0.974) **NLGN4X (Exon)** p=1.02e-05p=0.7463.4 ENSE00001827176.1 3.0 2.8 2.6 DG-GCL **HIPPO** AAGG GA ΑA GG GA

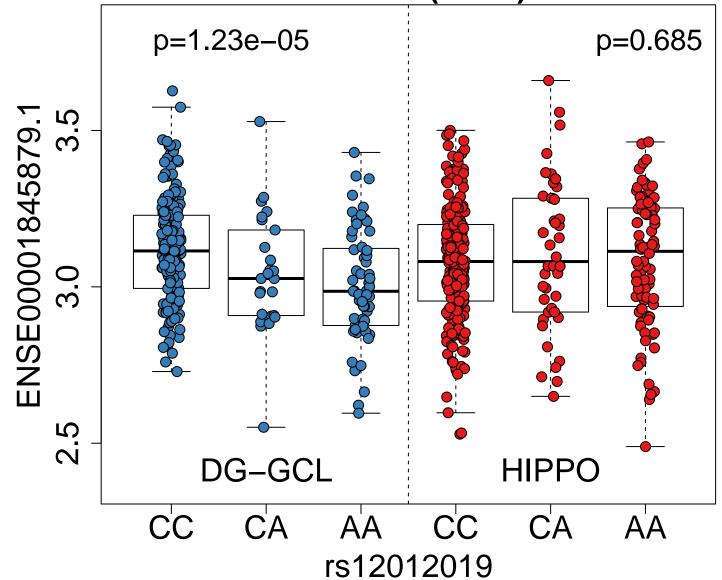
rs7052989

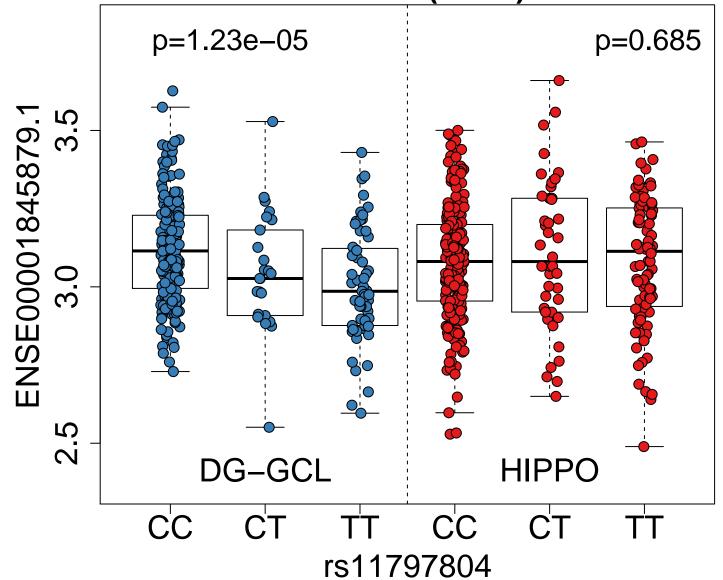
Index: rs2410572 (R^2=0.864) PSD3 (Gene) p=1.12e-05p=0.645ENSG00000156011.16 5.5 DG-GCL **HIPPO** 4.5 GG AA AG GG AG Α̈́A rs13254898

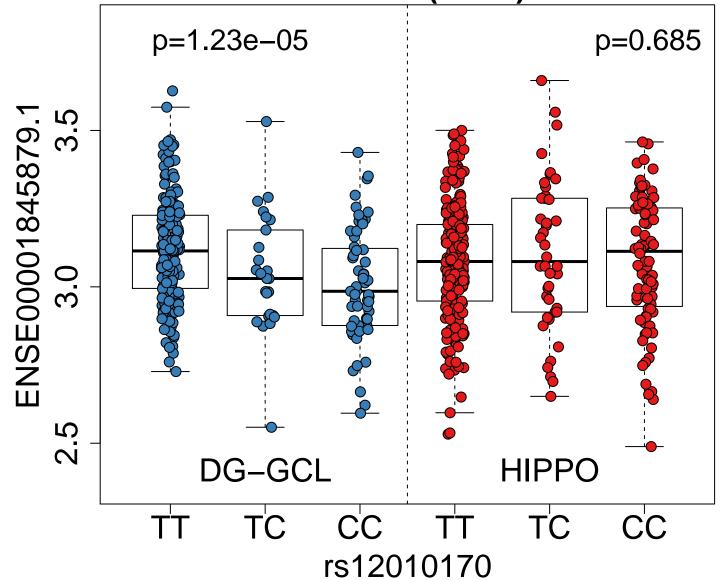




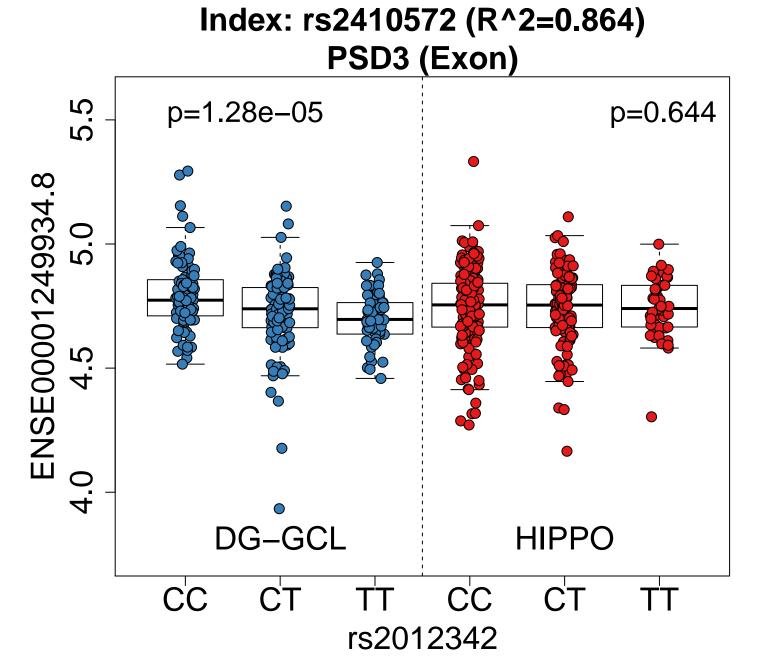


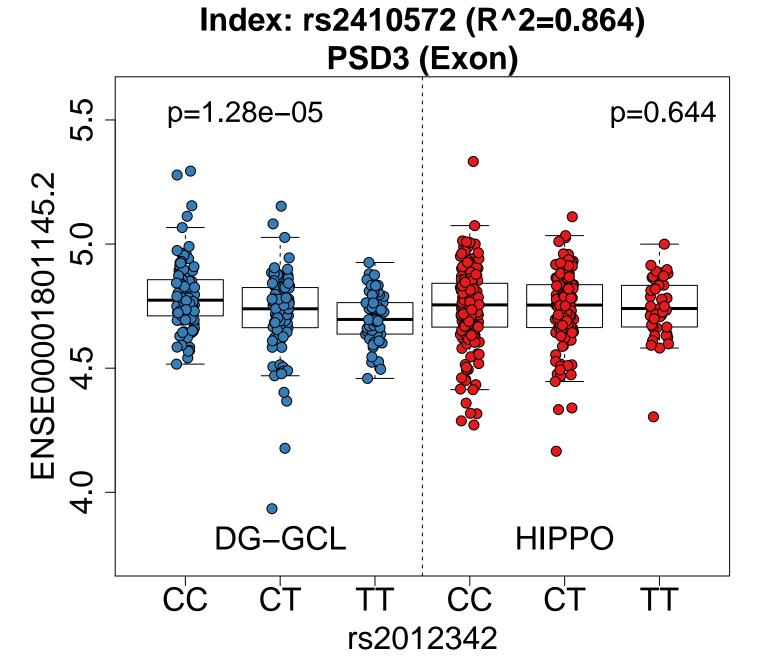




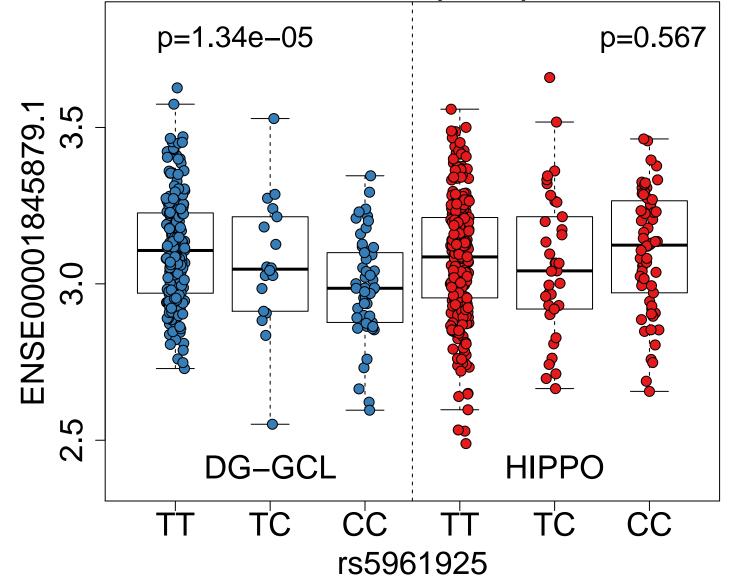


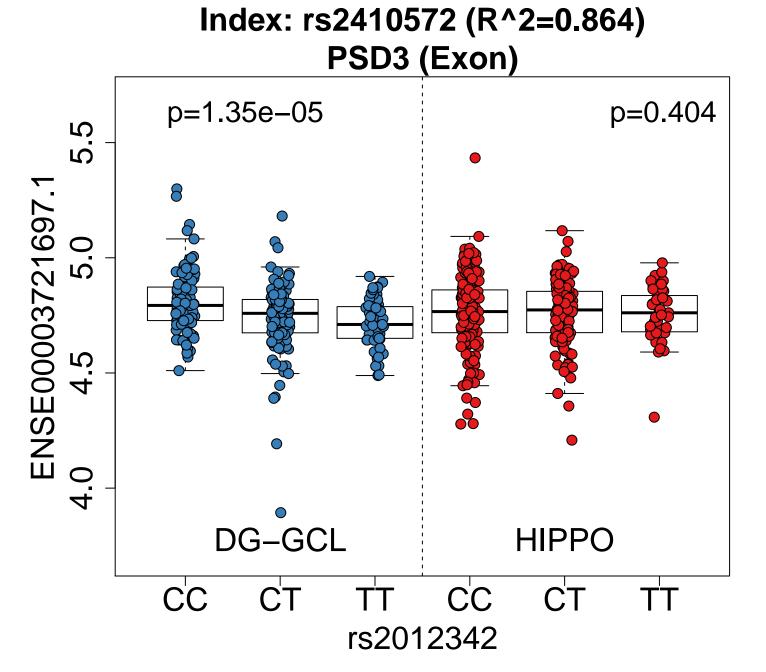
Index: rs1080500 (R^2=0.941) RP5-966M1.6 (Jxn) p=1.24e + 05p=0.00533chr3:52830671-52831407(-) GG AAGA rs11713763



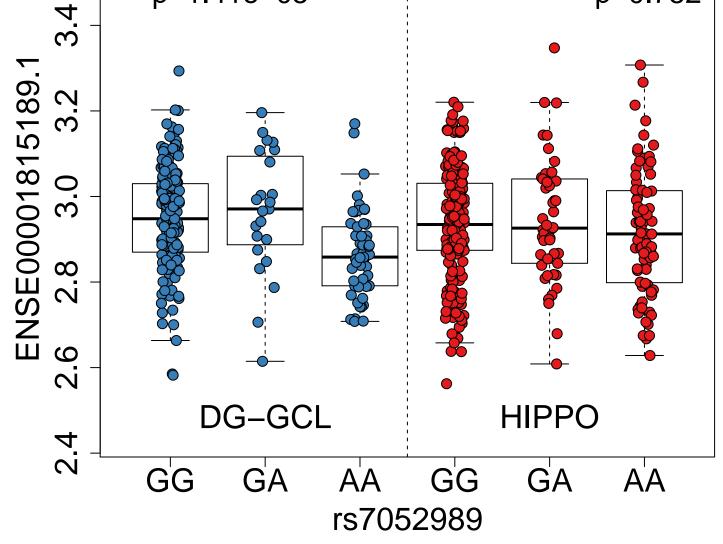


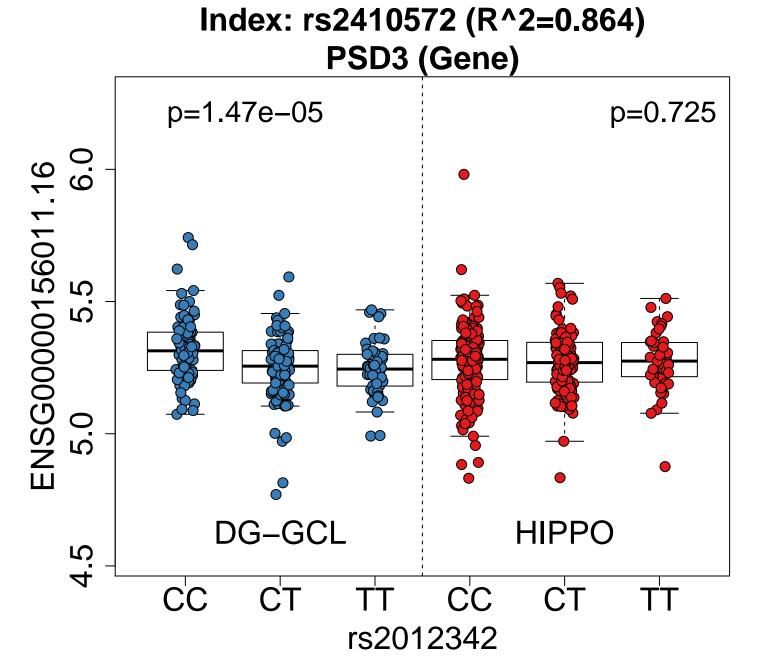
Index: rs12704290 (R^2=0.968) GRM3 (Exon) p=1.33e-05p=0.116ENSE00001792681.1 3.5 3.0 2.5 DG-GCL **HIPPO** AATA AA TA rs13230421

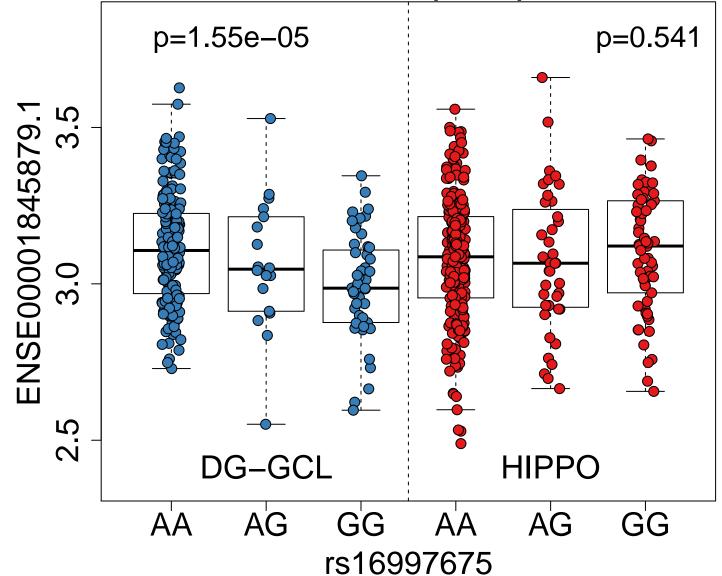




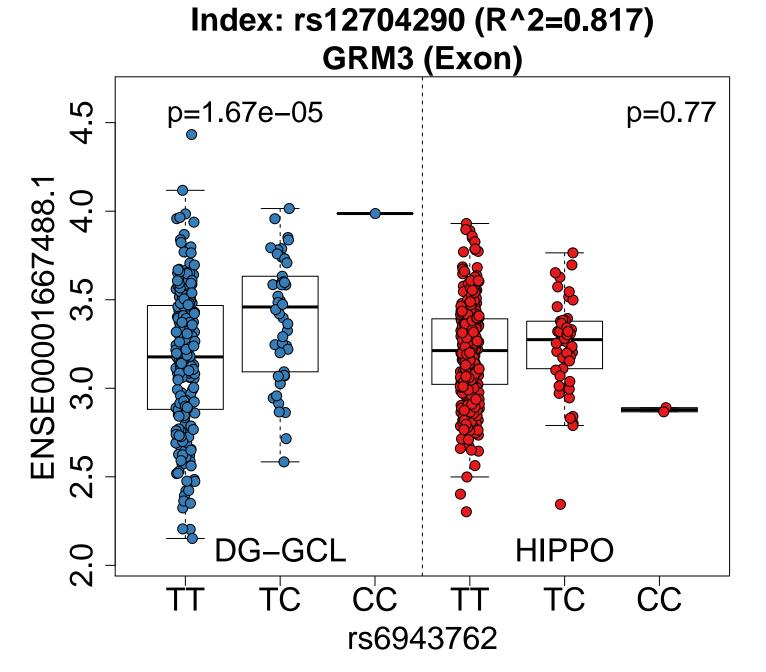
Index: rs12009217 (R^2=0.974) **NLGN4X (Exon)** p=1.41e-05p=0.752



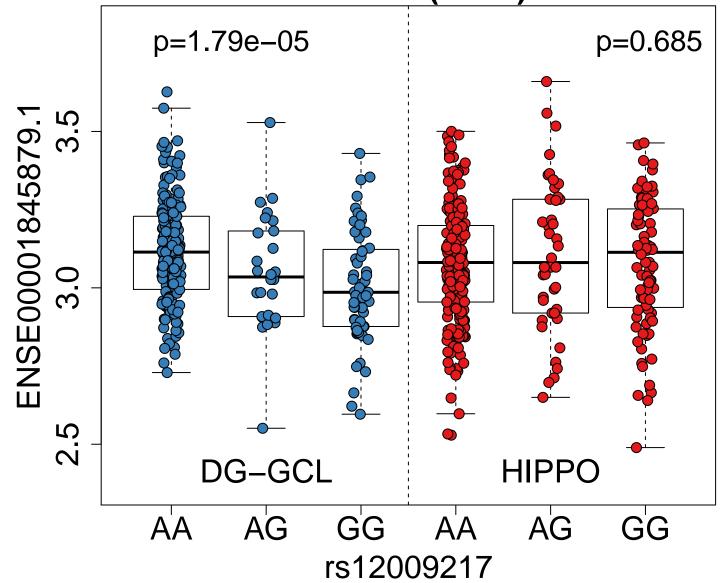


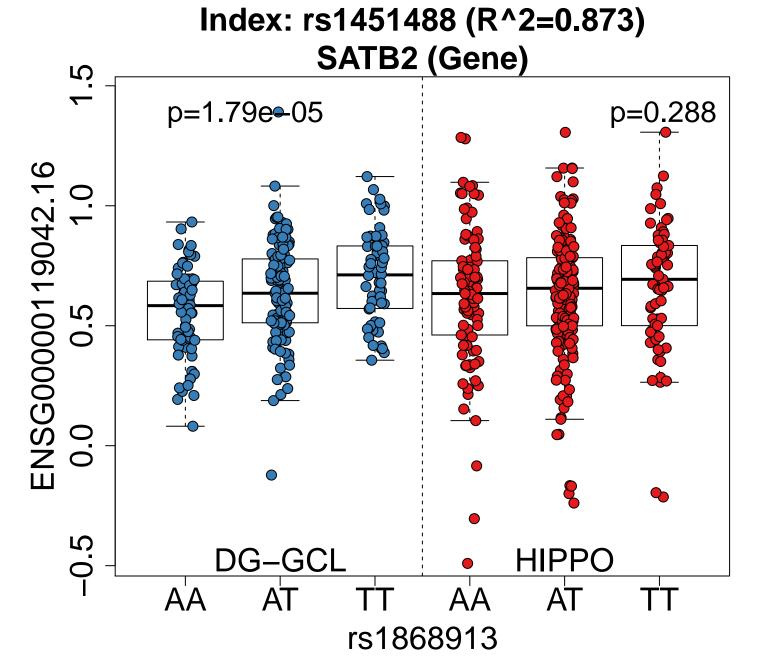


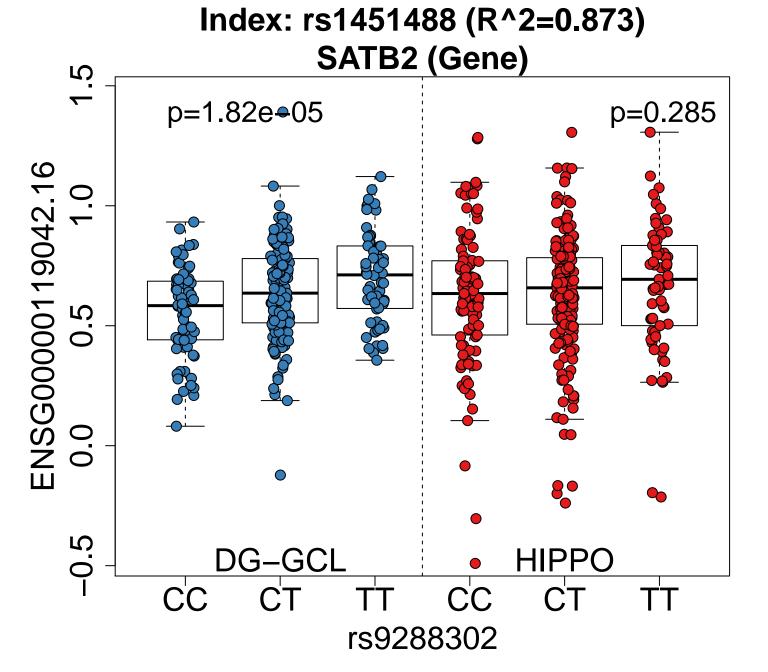
Index: rs7010876 (R^2=0.843) **MMP16 (Tx)** p=1.6e-05p=0.541ENST00000286614.10 2.5 3.0 DG-GCL **HIPPO** CC CC CA CA AA rs10955542

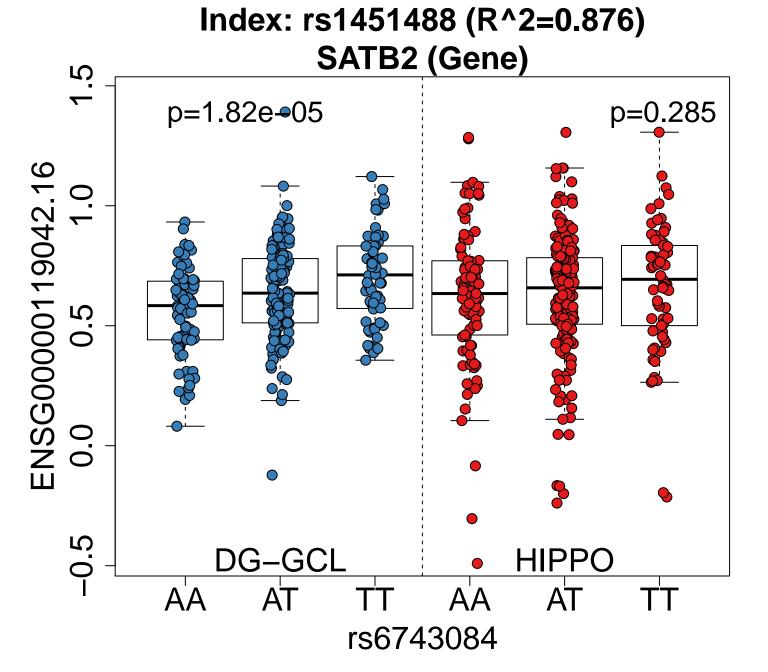


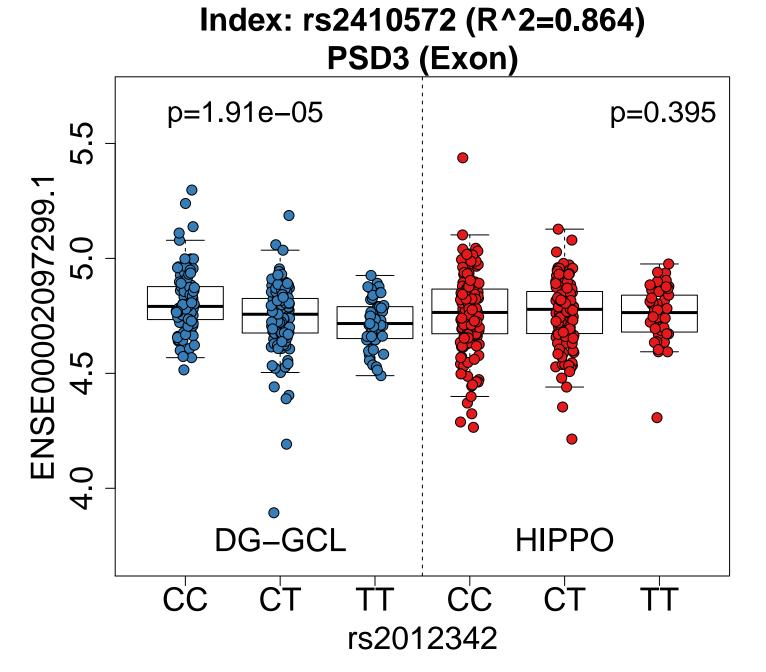
Index: rs7010876 (R^2=0.803) MMP16 (Exon) p=1.73e-05p=0.209ENSE00001260017.7 1.6 DG^eGCL **HIPPO** AA AΑ ΑT rs11986810









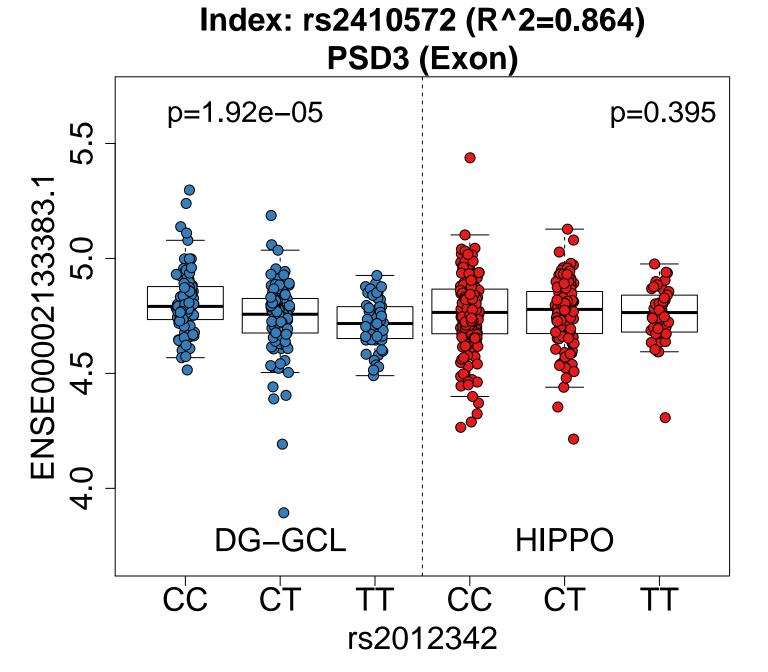


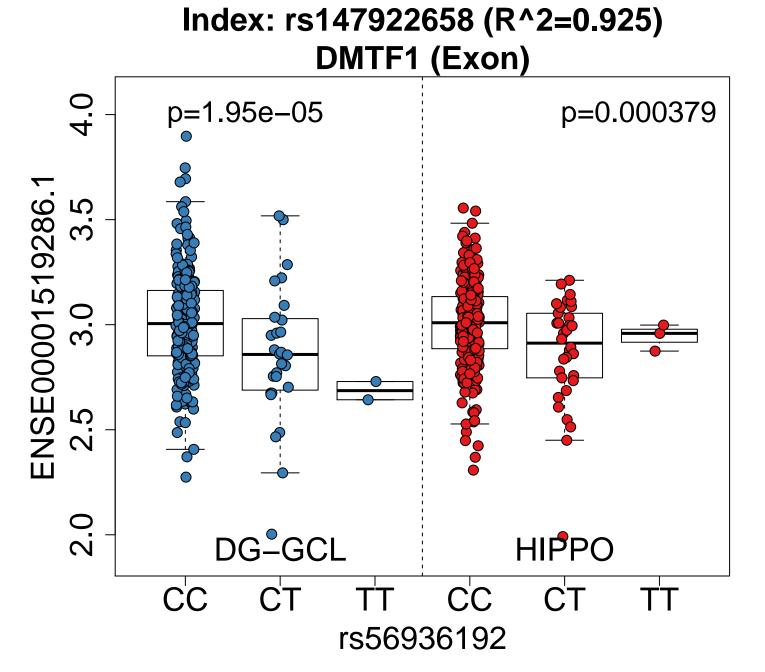
Index: rs7010876 (R^2=0.848) **MMP16 (Tx)** p=1.91e-05 p=0.823DG-GCL **HIPPO** GΑ GG AA GG GA

rs10955556

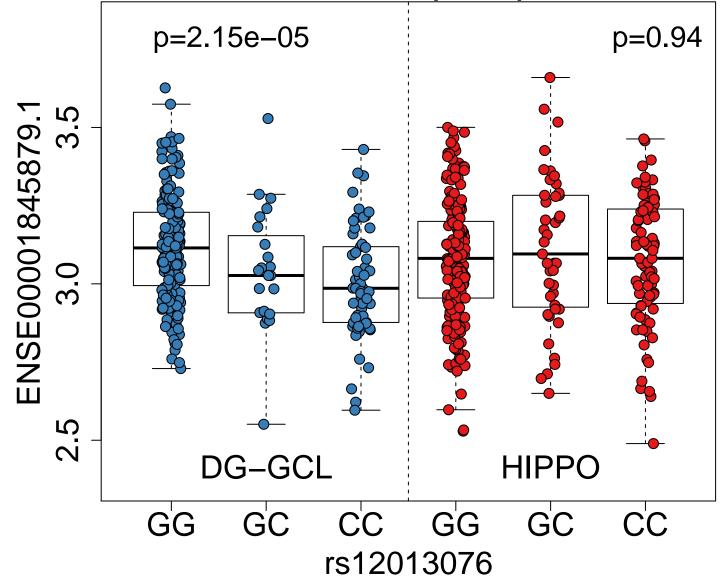
ENST00000286614.10 2.5 3.0

Index: rs7010876 (R^2=0.843) **MMP16 (Tx)** p=1.92e-05p=0.786ENST00000286614.10 2.5 3.0 DG-GCL **HIPPO** CC CC rs1915018

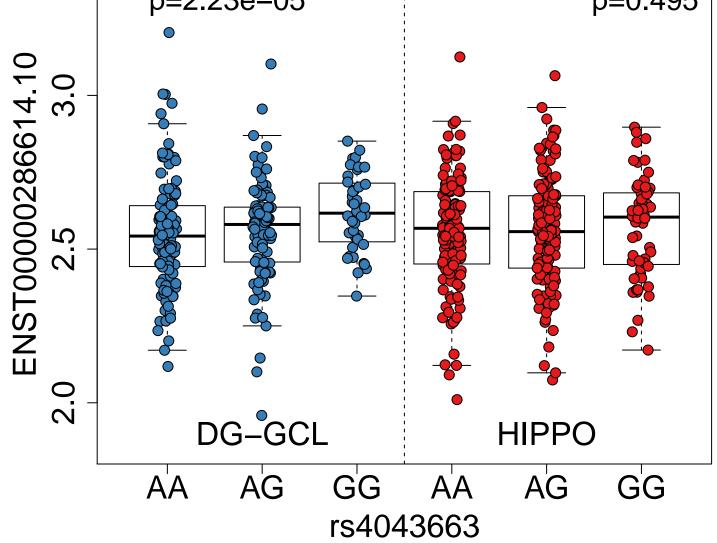


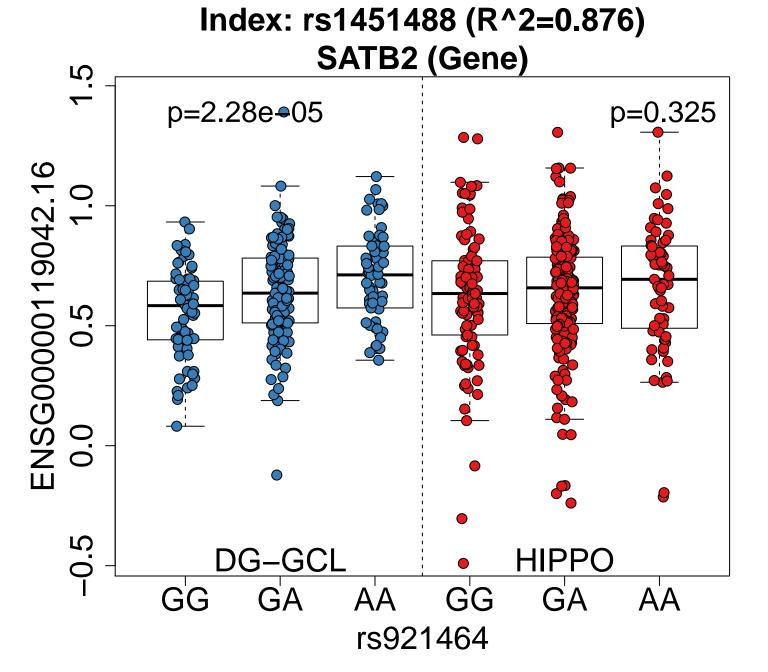


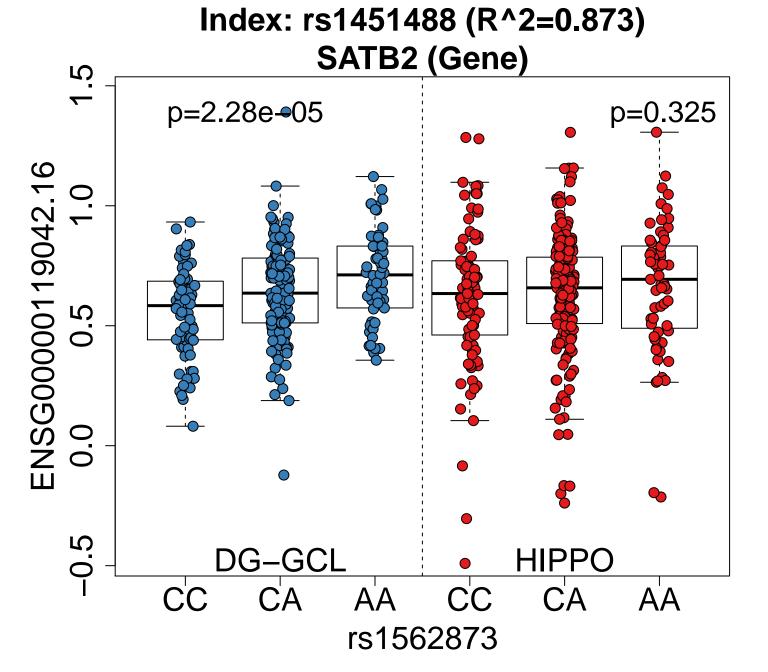
Index: rs12009217 (R^2=0.92) NLGN4X (Exon)

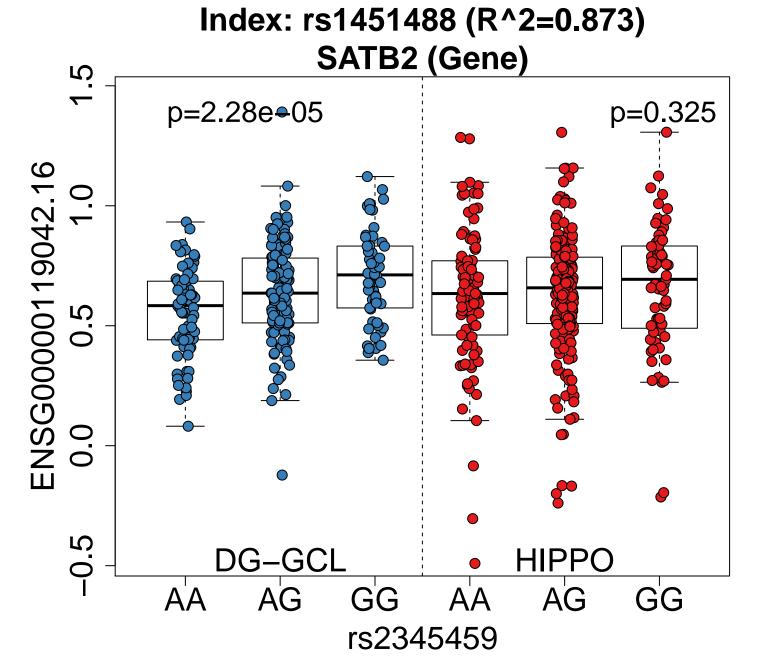


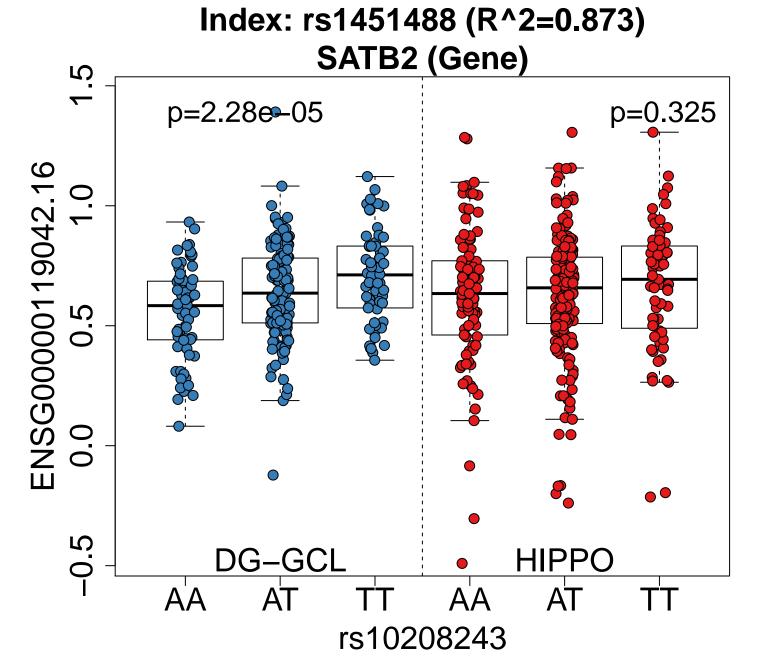
Index: rs7010876 (R^2=0.843) **MMP16 (Tx)** p=2.23e-05p=0.495

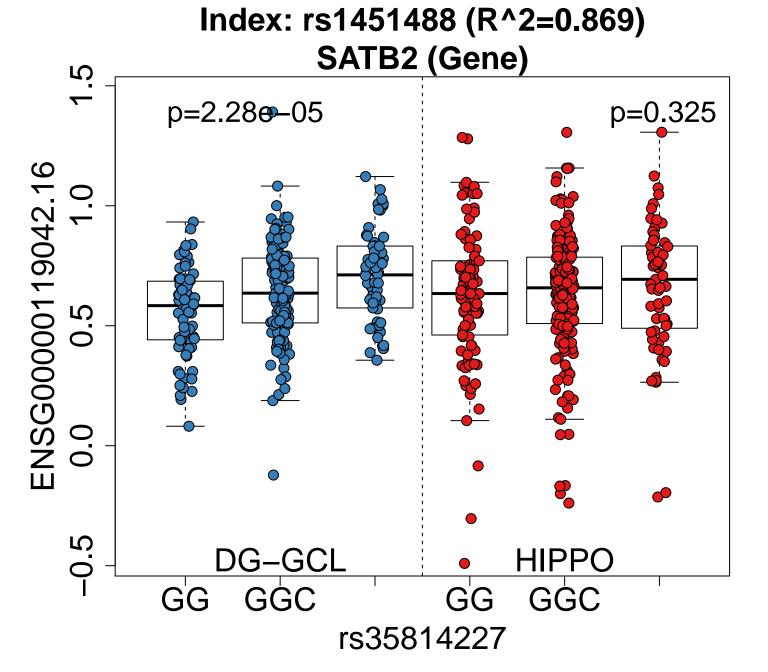


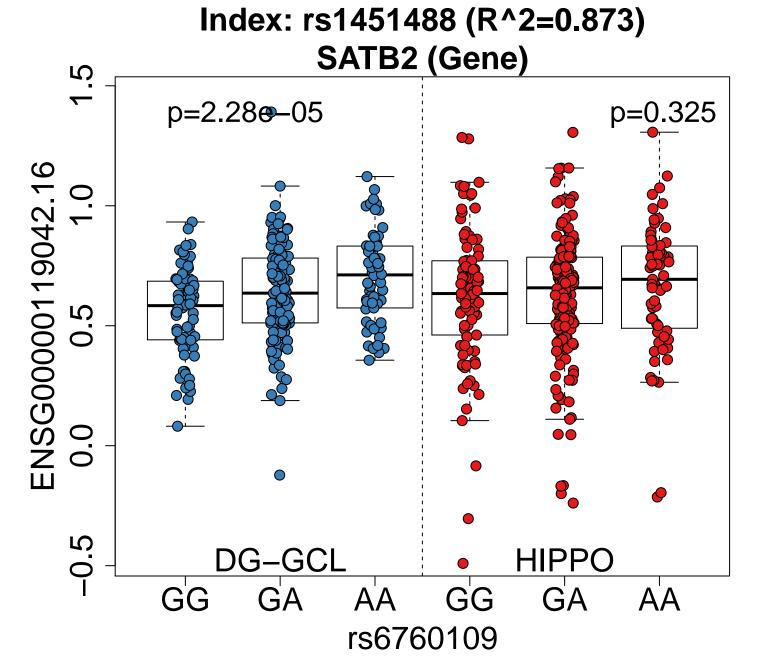


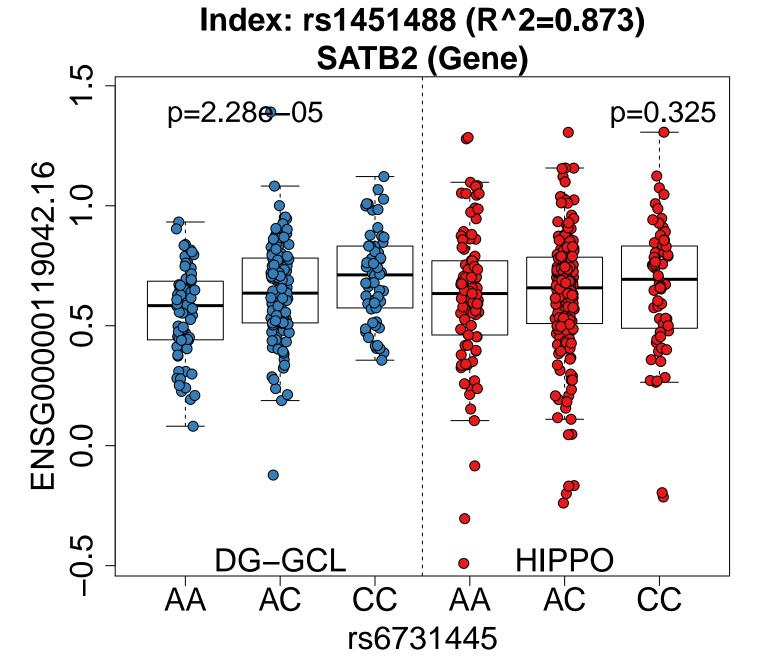


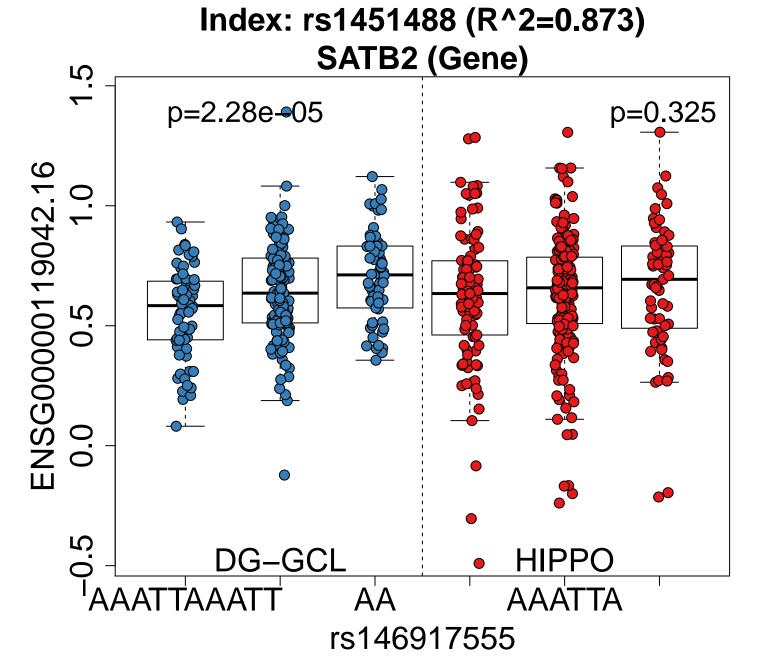


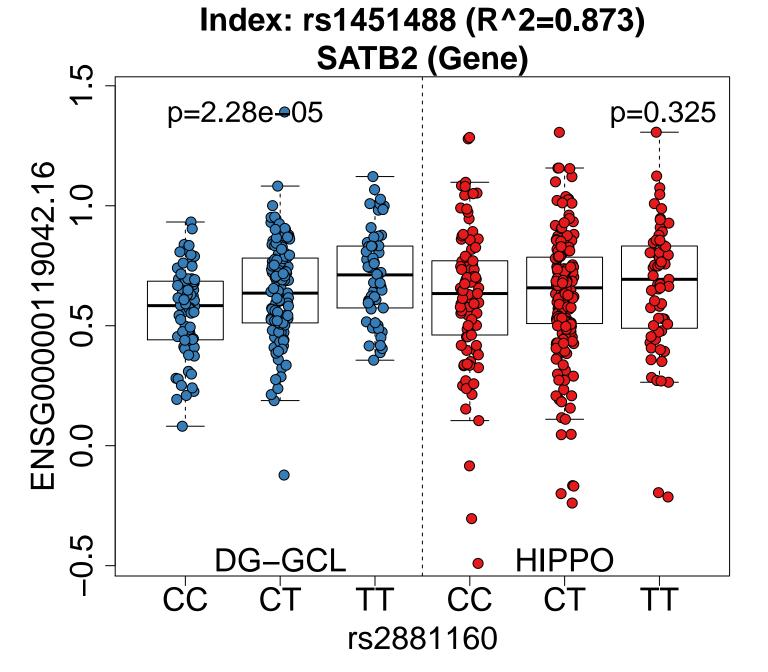


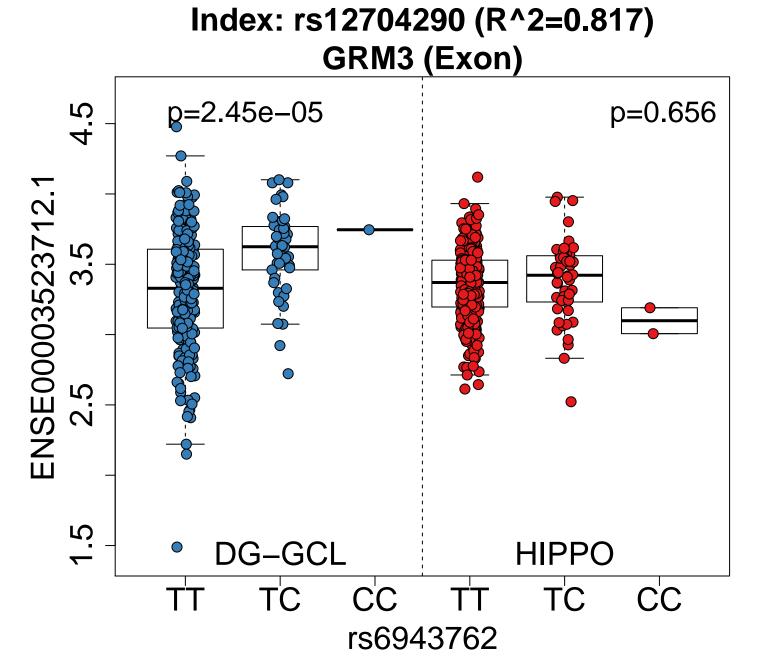




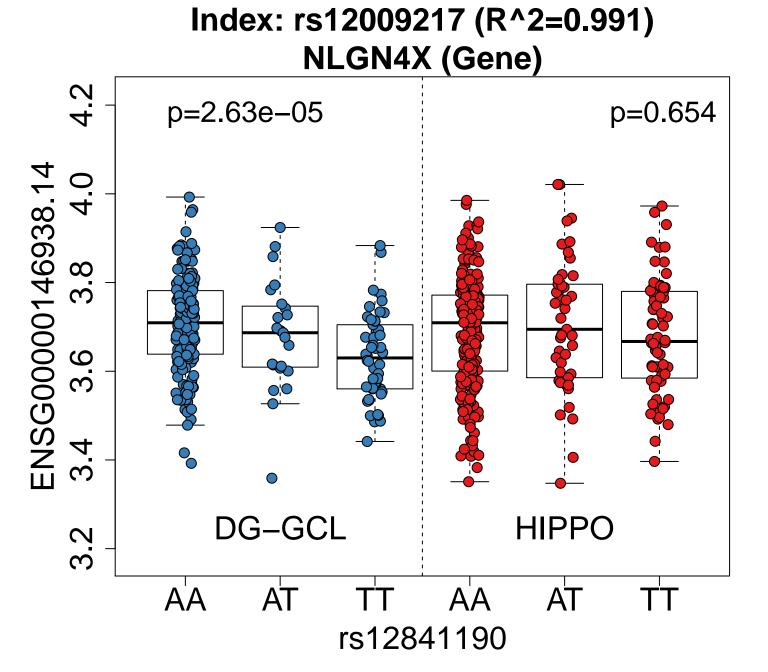


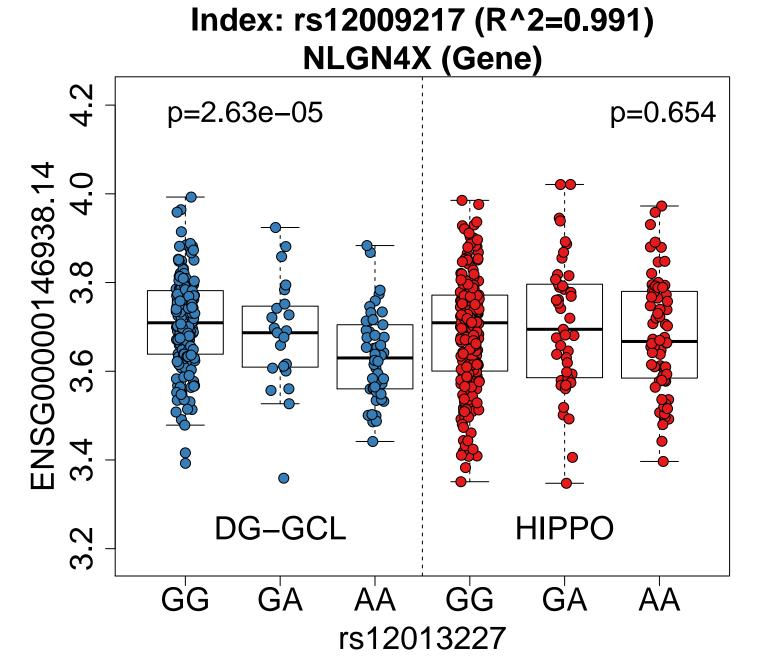


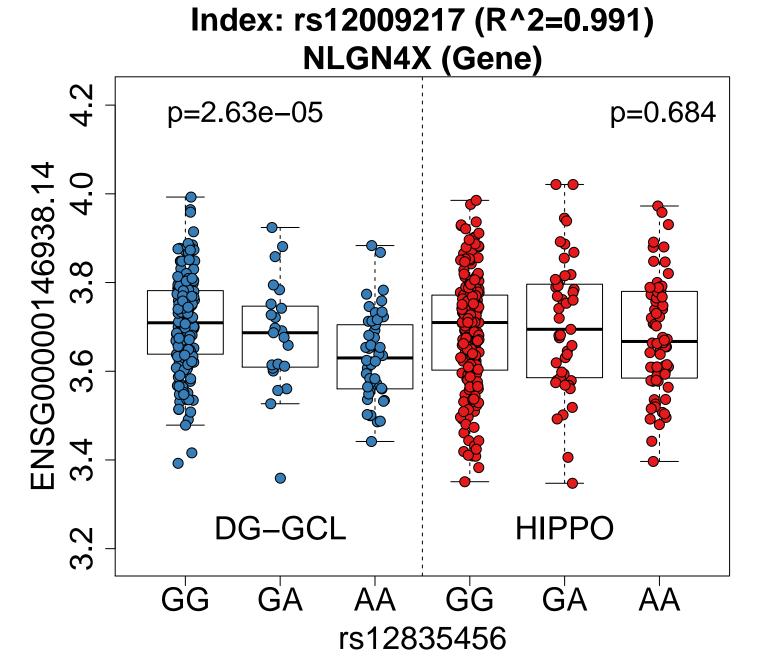


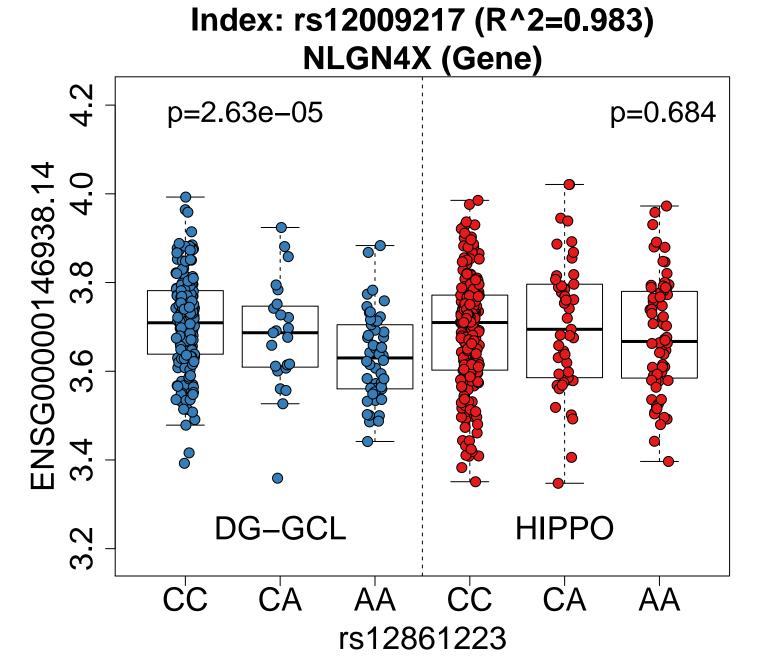


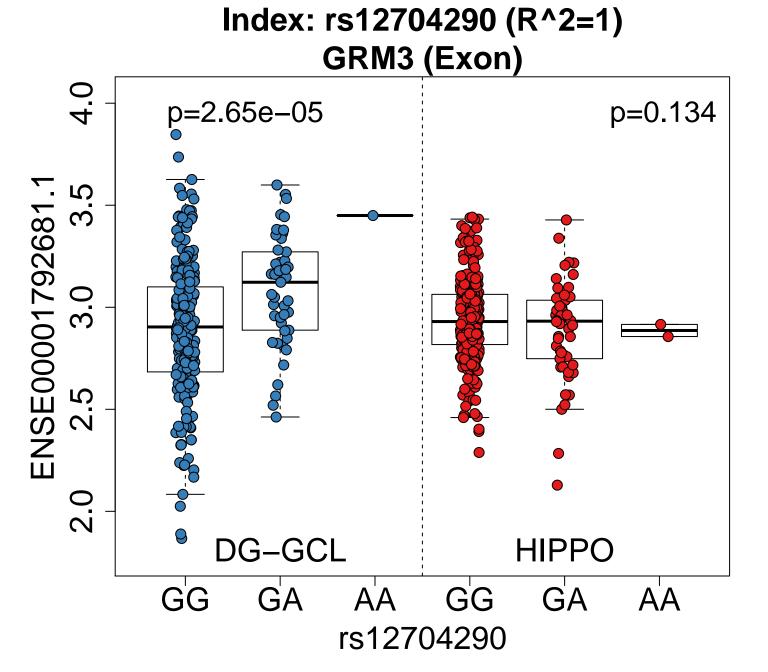
Index: rs7010876 (R^2=0.848) MMP16 (Gene) p=2.61e-05p=0.332ENSG00000156103.15 3.0 2.6 DG-GCL **HIPPO** GG GA GG GA AA rs10955556







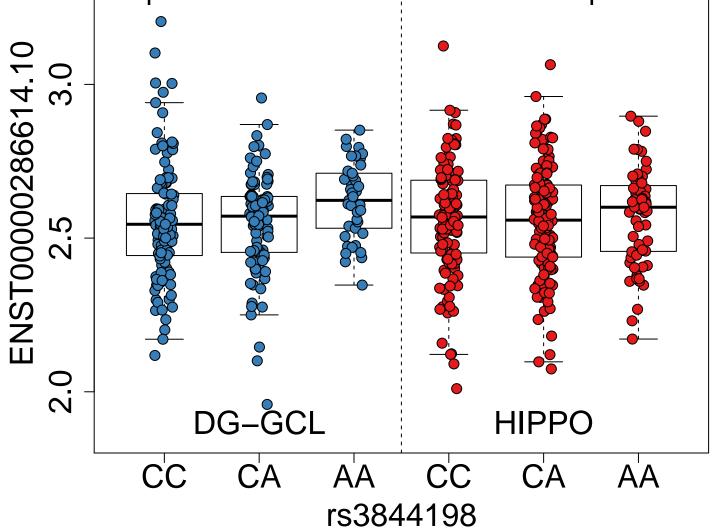




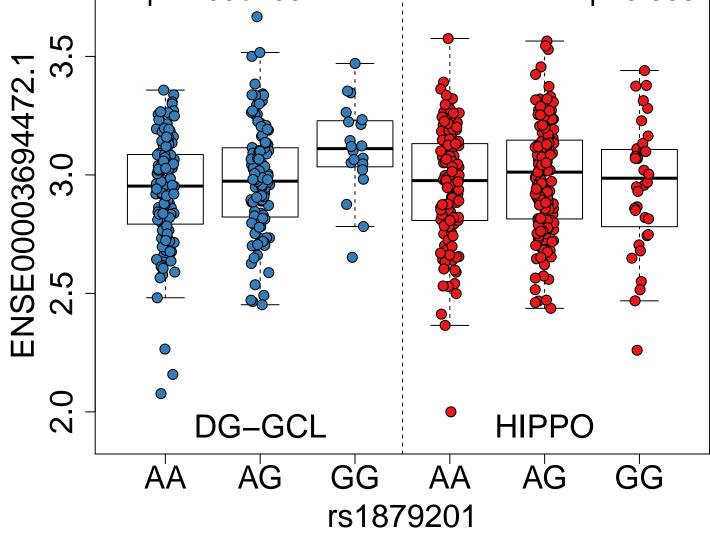
Index: rs7010876 (R^2=0.843) **MMP16 (Tx)** p=2.66e-05p = 0.549DG-GCL **HIPPO** AATA TA AA rs1915017

ENST00000286614.10 2.5 3.0

Index: rs7010876 (R^2=0.848) **MMP16 (Tx)** p=2.68e-05p=0.687

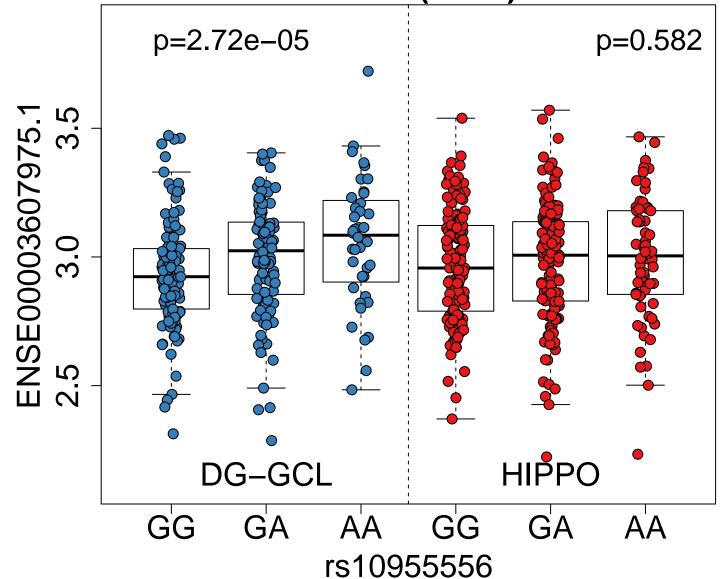


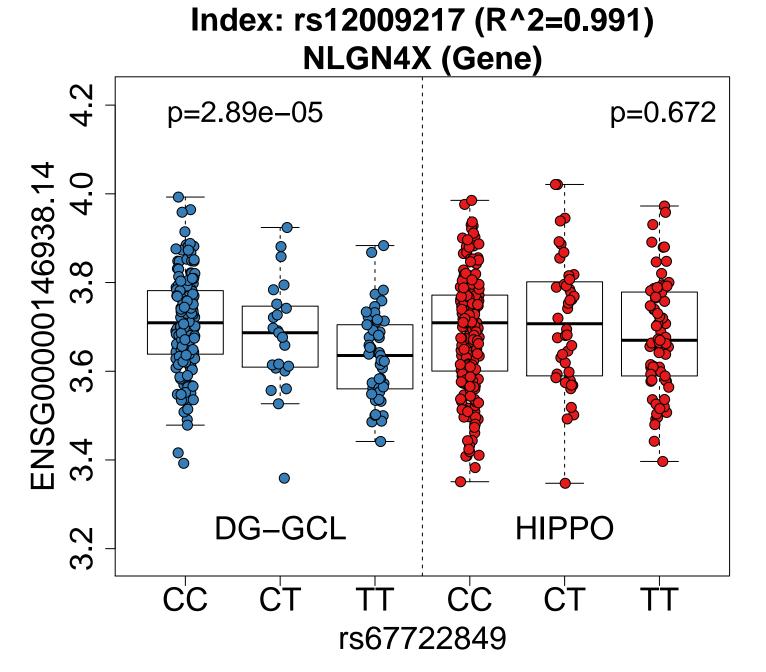
Index: rs7010876 (R^2=0.858) MMP16 (Exon) p=2.69e-05p=0.668DG-GCL **HIPPO**



Index: rs7010876 (R^2=0.843) MMP16 (Gene) p=2.72e-05p=0.338ENSG00000156103.15 3.0 2.6 DG-GCL **HIPPO** CC C_C rs1915018

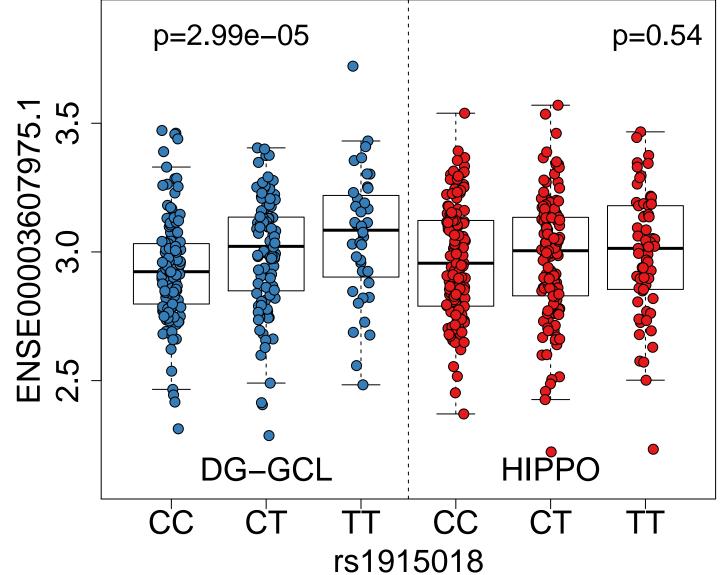
Index: rs7010876 (R^2=0.848) MMP16 (Exon)





Index: rs7010876 (R^2=0.863) MMP16 (Exon) p=2.96e-05p=0.7853.5 ENSE00003694472.1 2.5 DG-GCL **HIPPO** AAGG GA AΑ GG GA rs2049073

Index: rs7010876 (R^2=0.843) MMP16 (Exon)



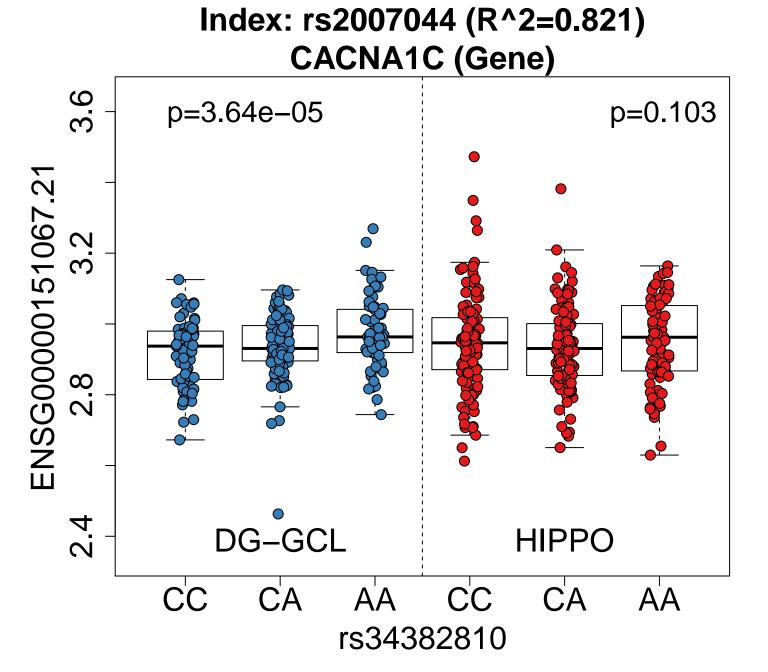
Index: rs12704290 (R^2=0.968) GRM3 (Exon) p=3.09e-05p=0.207DG-GCL **HIPPO** AATA AA TA

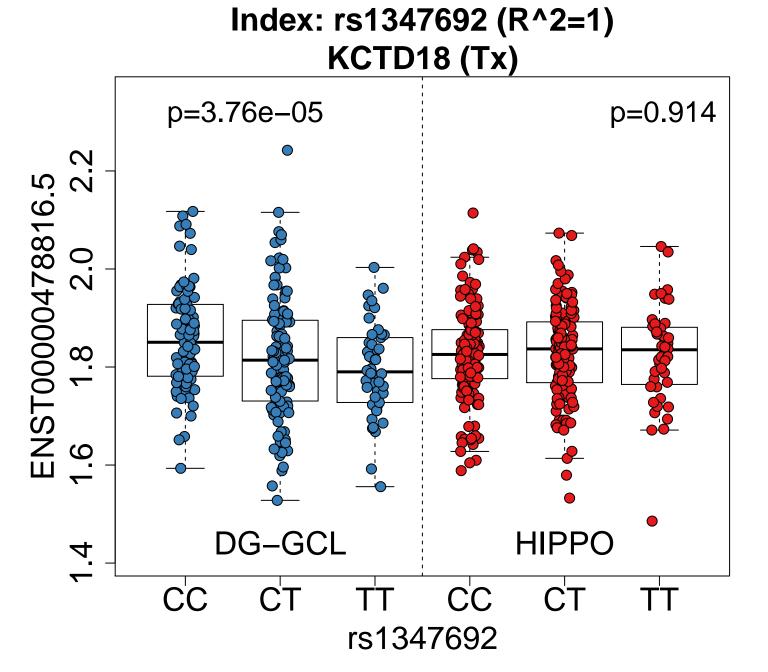
rs13230421

3.5

ENSE00001254406.1 2.5 3.0 3.5

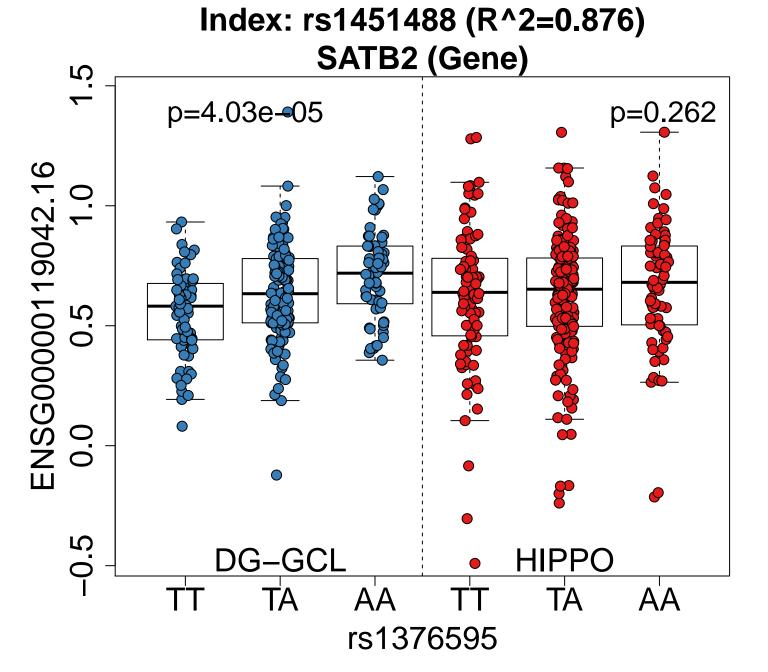
Index: rs12704290 (R^2=0.968) GRM3 (Gene) 4.5 p=3.16e-05p=0.542ENSG00000198822.10 3.5 2.5 DG-GCL **HIPPO** AATA AA TA rs13230421

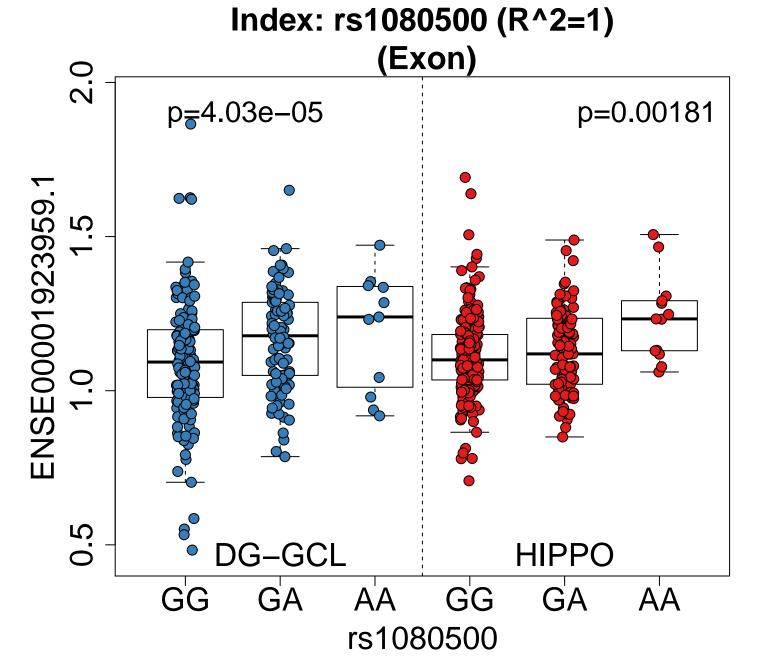


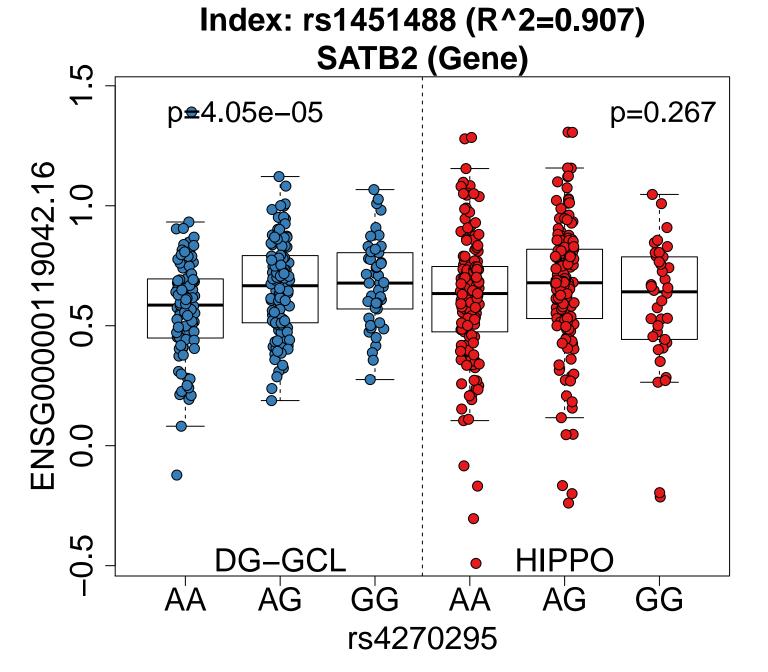


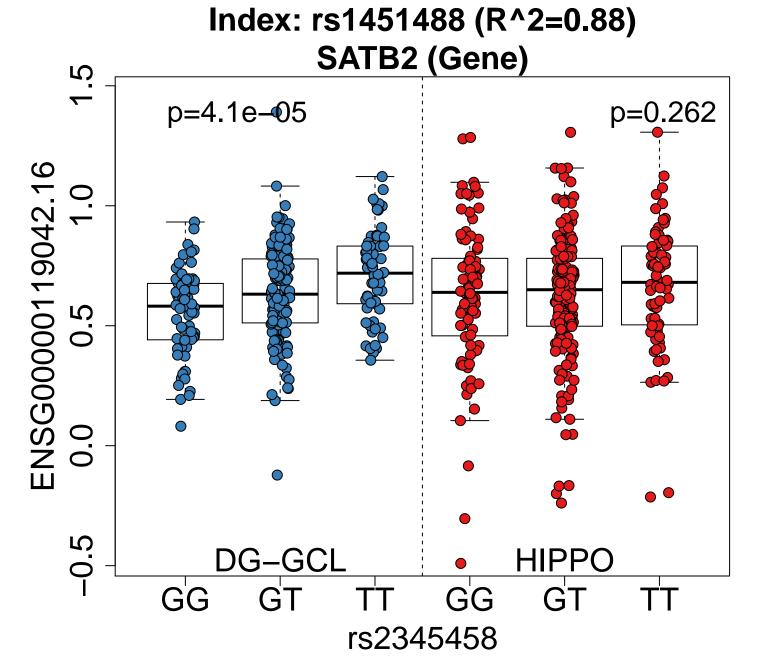
Index: rs2410572 (R^2=0.844) PSD3 (Gene) p=3.96e-05p=0.917ENSG00000156011.16 5.5 DG-GCL **HIPPO** 4.5 CC CC TC TC rs876983

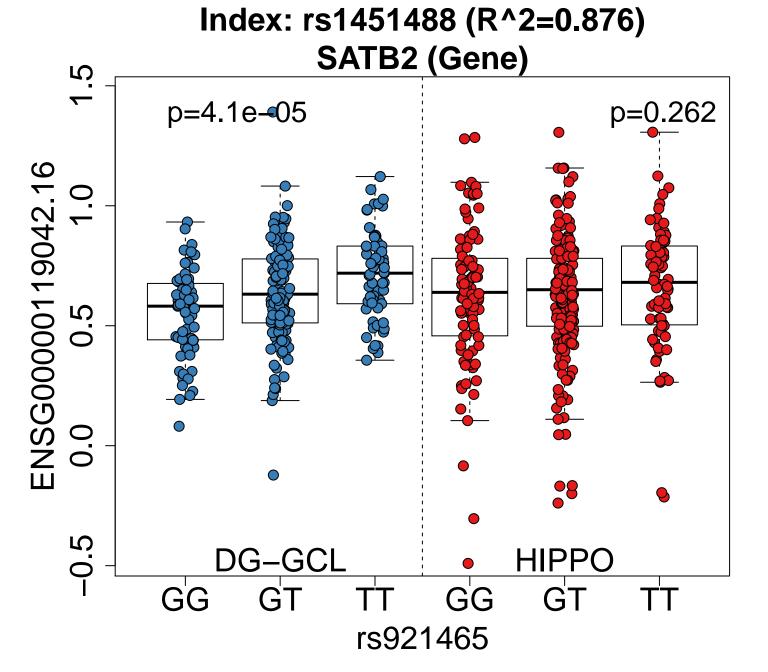
Index: rs7010876 (R^2=0.848) MMP16 (Gene) p = 4e - 05p=0.234ENSG00000156103.15 3.0 2.6 $\bigcirc\bigcirc$ DG-GCL **HIPPO** 2.2 CC CC AACA CA ΑA rs3844198

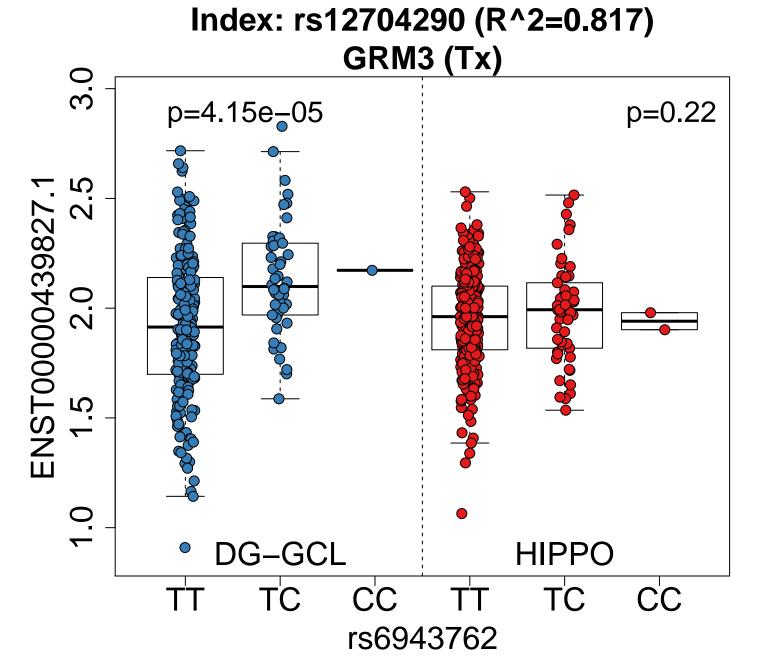


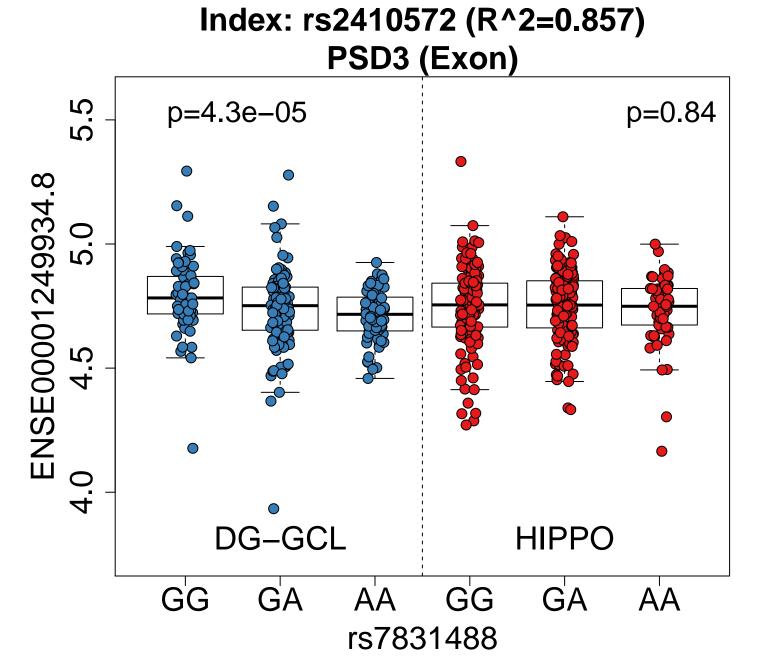


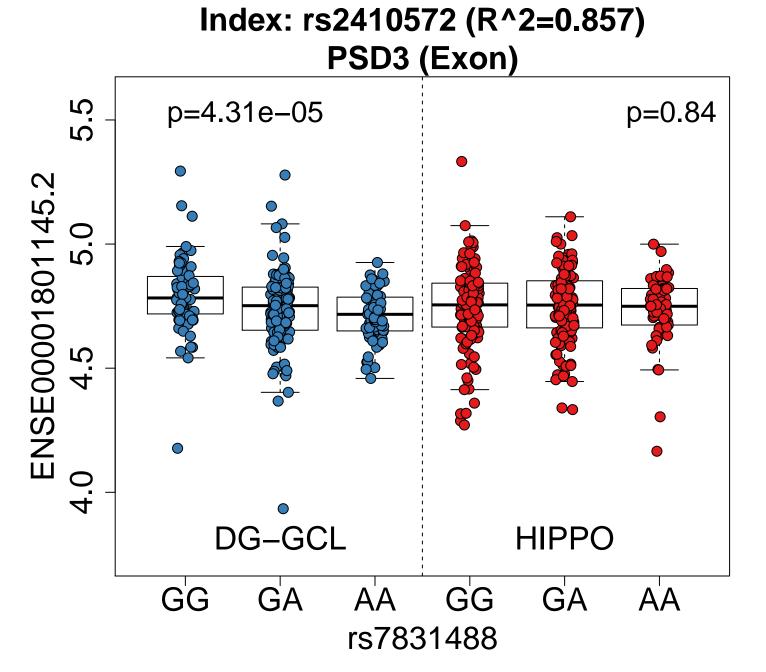


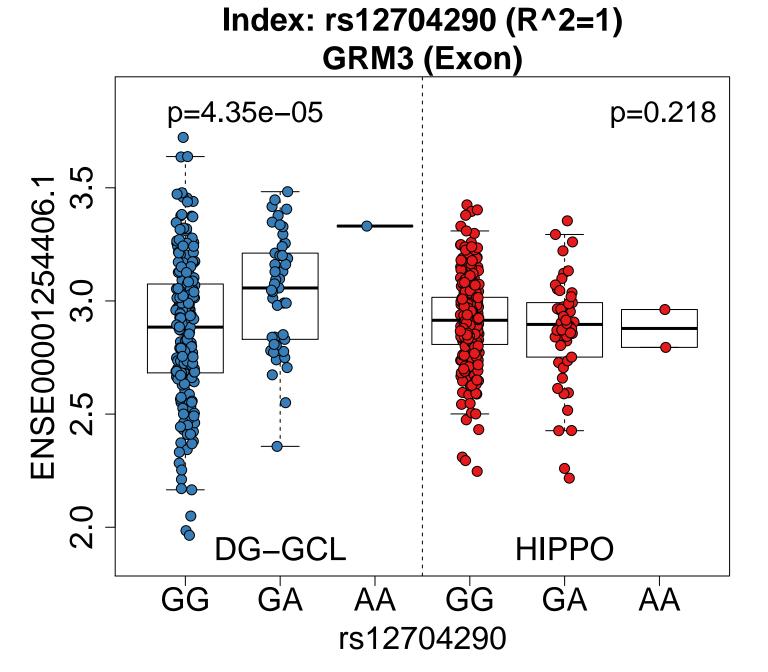


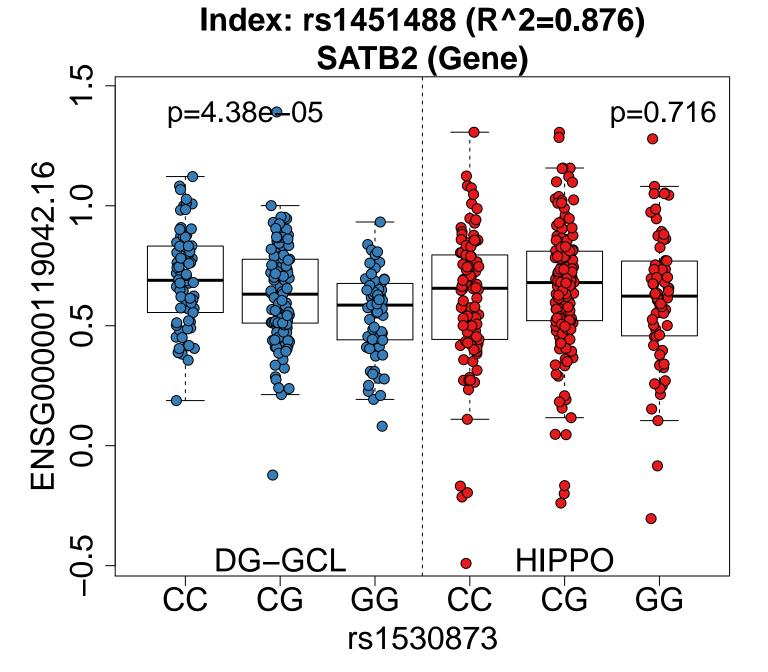


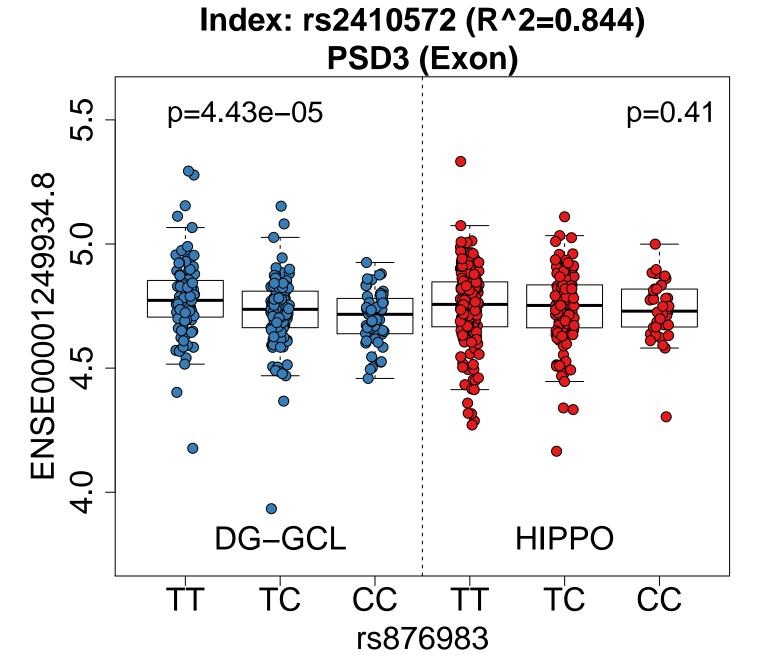


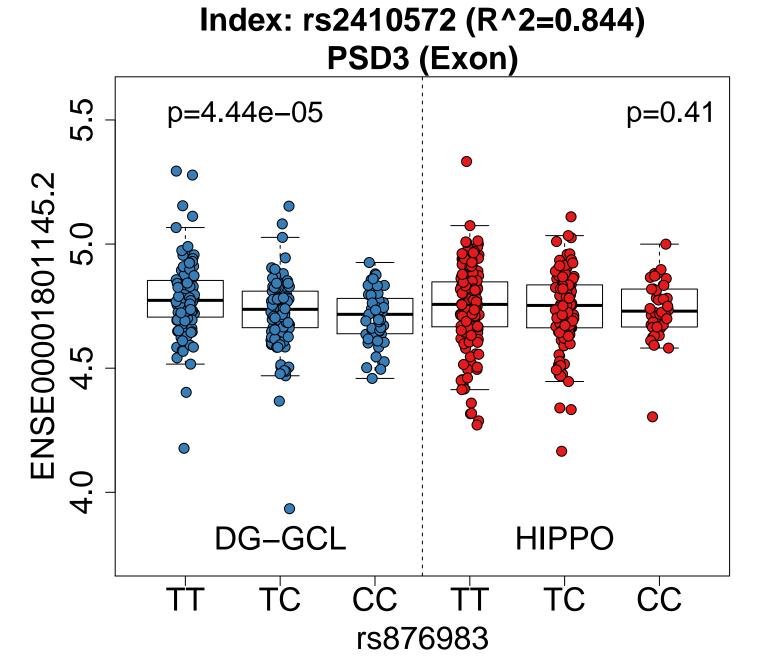


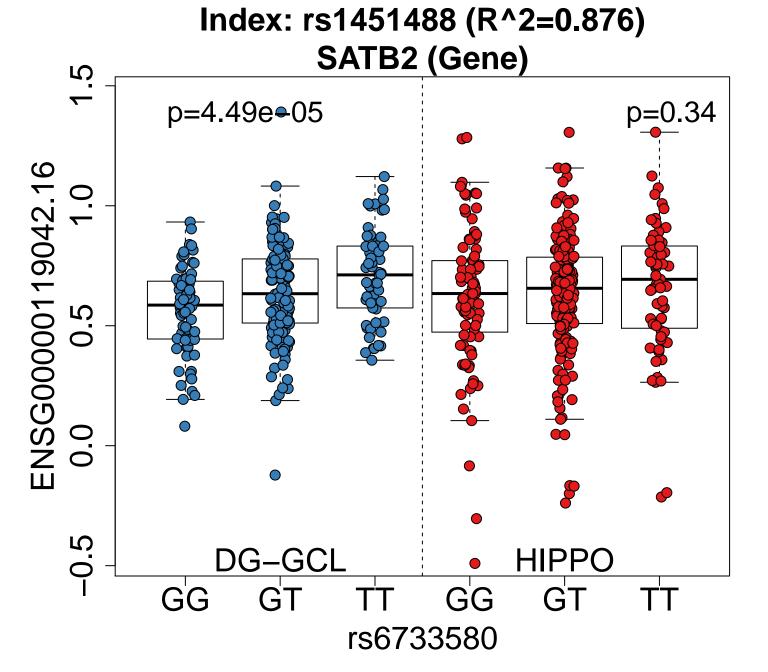


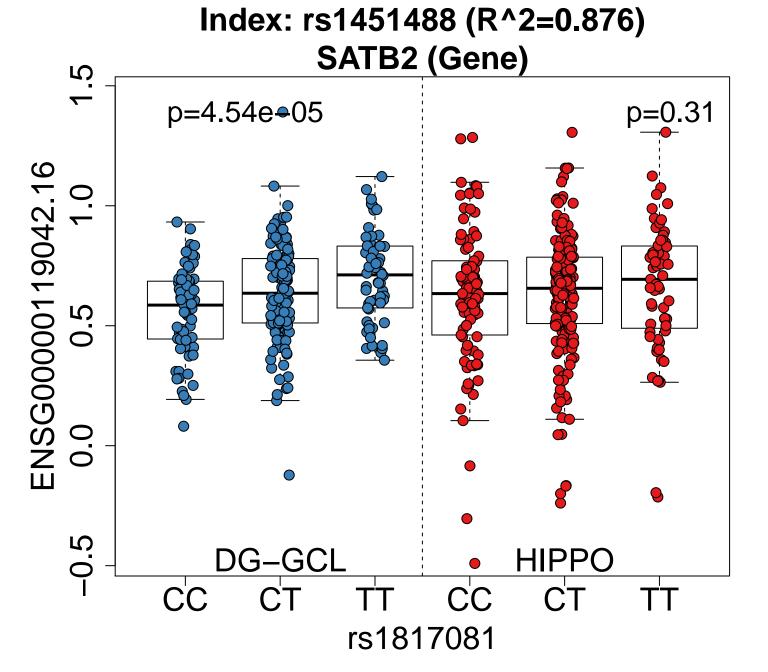












Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=4.58e-05p=0.594ENSE00001487507.3 3 2.8 3.0 3.2 2.6 DG-GCL **HIPPO** AΑ ΑT Α̈́A rs12841190

Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=4.58e-05p=0.594DG-GCL **HIPPO** GG GA GG GA AA

rs12013227

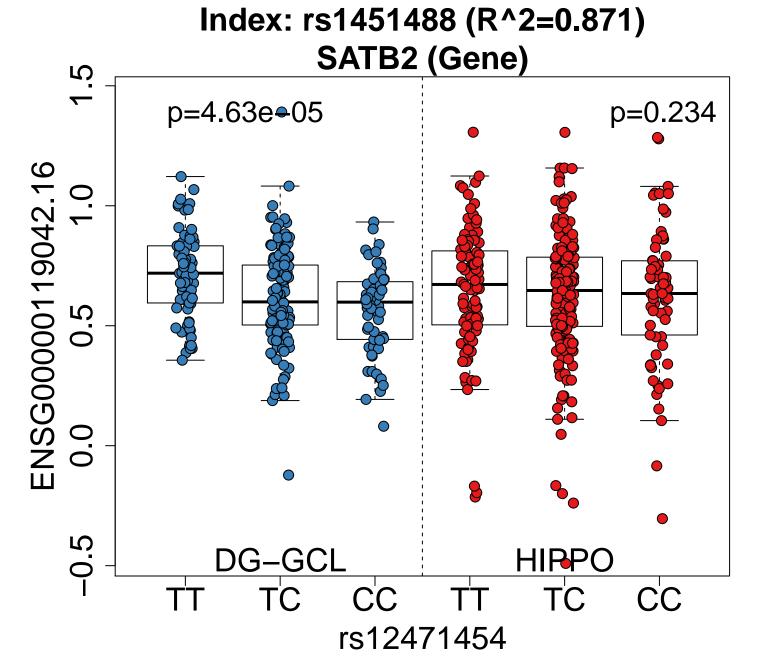
ENSE00001487507.3 3 2.8 3.0 3.2

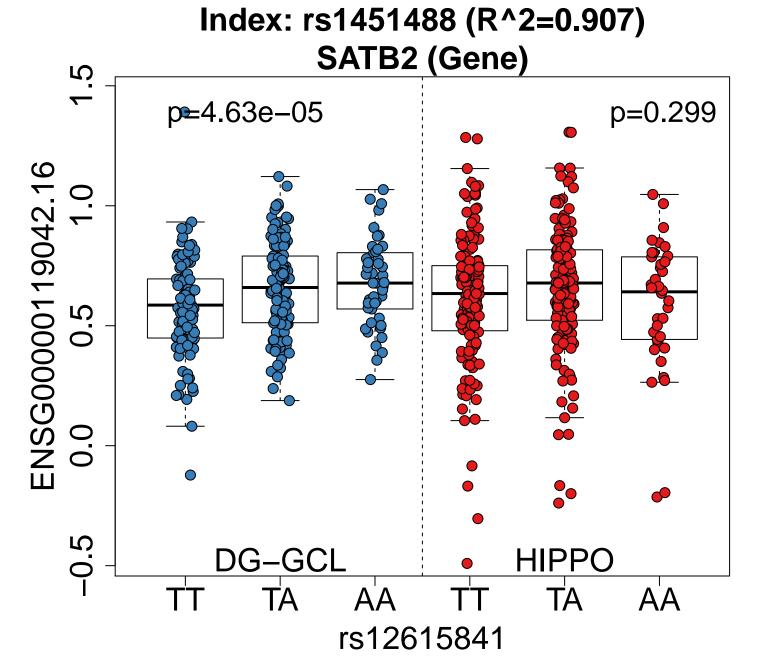
2.8

2.6

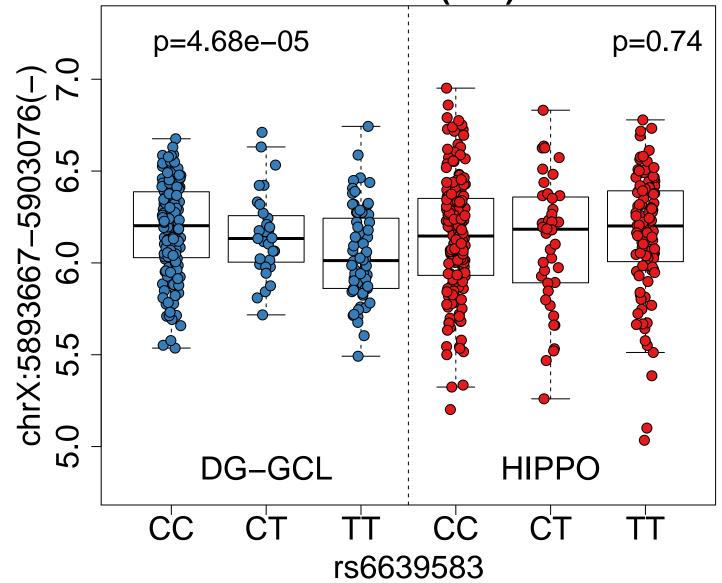
Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=4.58e-05p = 0.63ENSE00001487507.3 3 2.8 3.0 3.2 2.8 2.6 DG-GCL **HIPPO** AAGG GA GG GA AA rs12835456

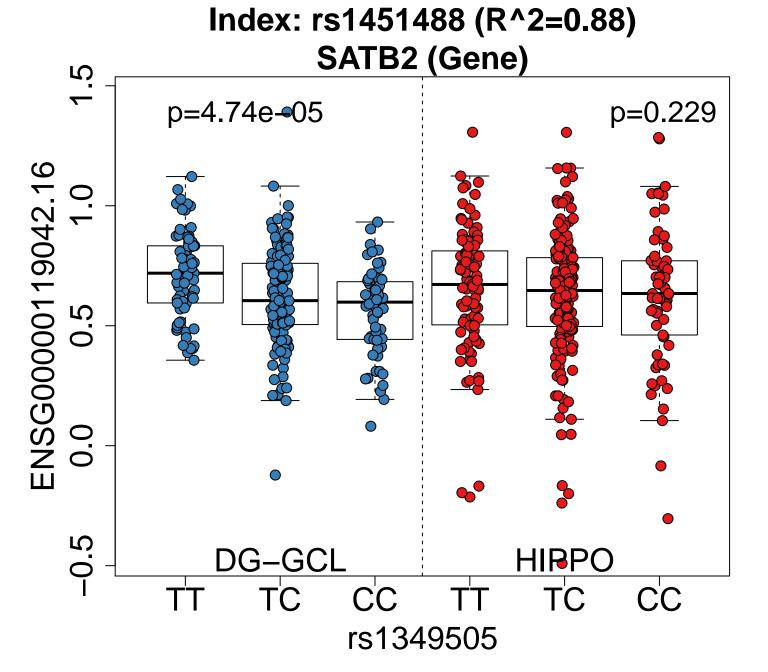
Index: rs12009217 (R^2=0.983) **NLGN4X (Exon)** p=4.58e-05p = 0.63ENSE00001487507.3 3 2.8 3.0 3.2 2.8 2.6 DG-GCL **HIPPO** CC CC CA ΑA CA rs12861223

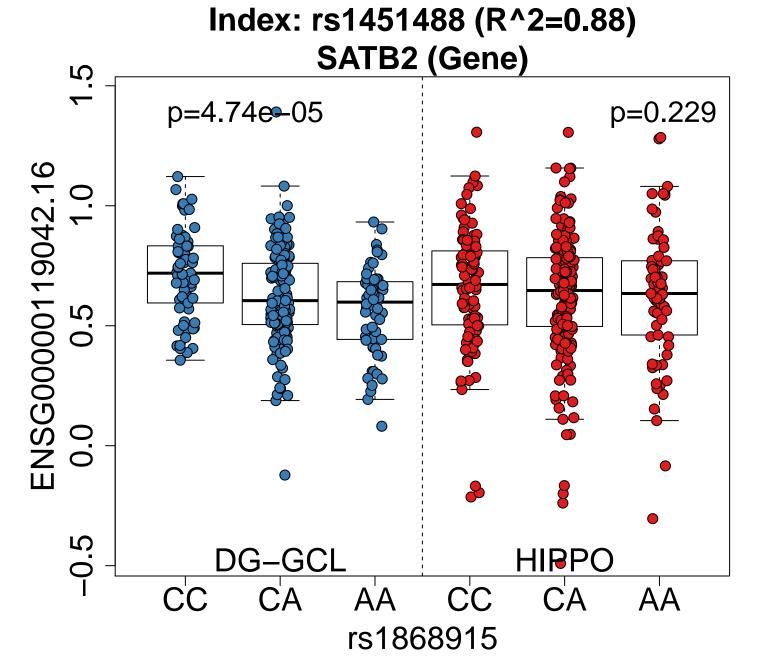


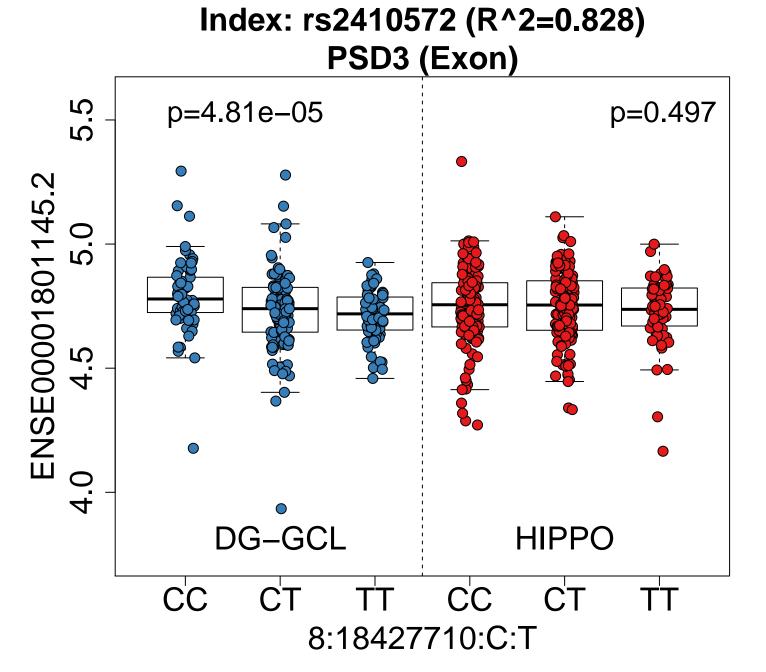


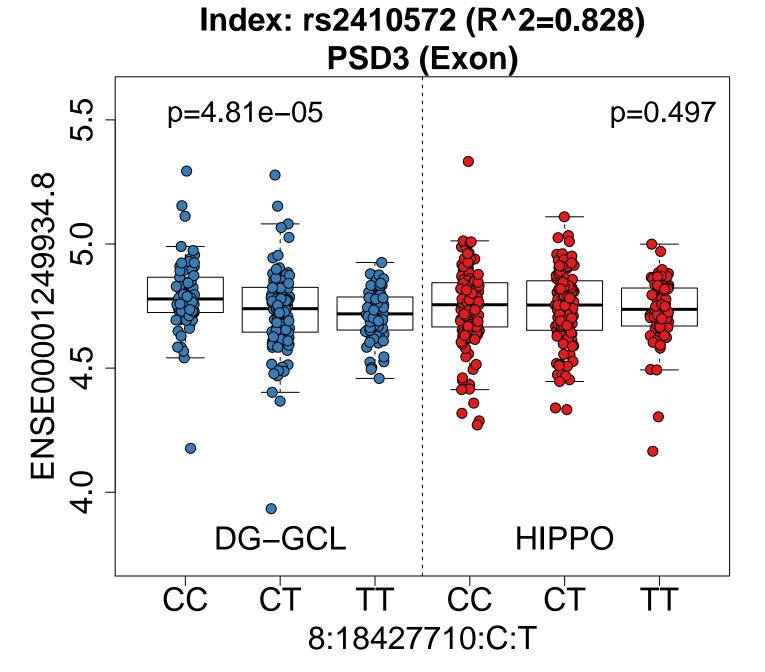
Index: rs12009217 (R^2=0.809) NLGN4X (Jxn)











Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=0.632p=4.95e-053.4 ENSE00001815189.1 3.0 2.8 2.6 DG-GCL **HIPPO** 2.4 AA ΑT ΑA AT rs12841190

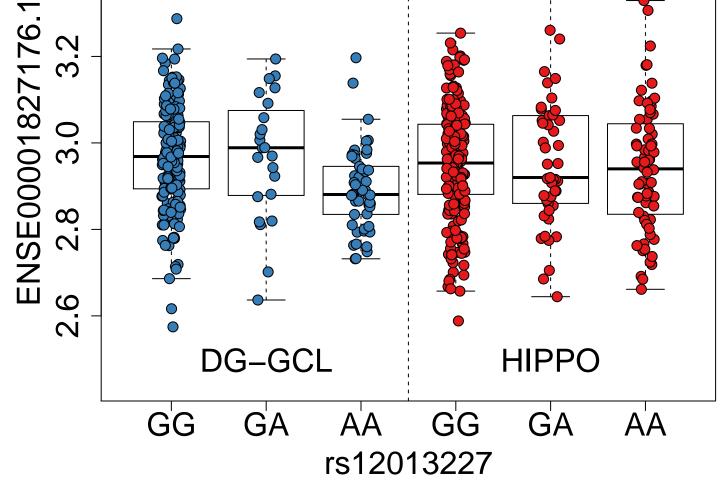
Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=4.95e-05p=0.6323.4 ENSE00001815189.1 3.2 3.0 2.8 2.6 DG-GCL **HIPPO** 2.4 AAGG GA GG GA AA rs12013227

Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=4.95e-05p=0.6683.4 ENSE00001815189.1 3.0 2.8 2.6 DG-GCL **HIPPO** 2.4 AAGG GA GG GA AA rs12835456

Index: rs12009217 (R^2=0.983) **NLGN4X (Exon)** p=4.95e-05p=0.6683.4 ENSE00001815189.1 3.0 2.8 2.6 DG-GCL **HIPPO** 2.4 CC CC CA ΑA CA rs12861223

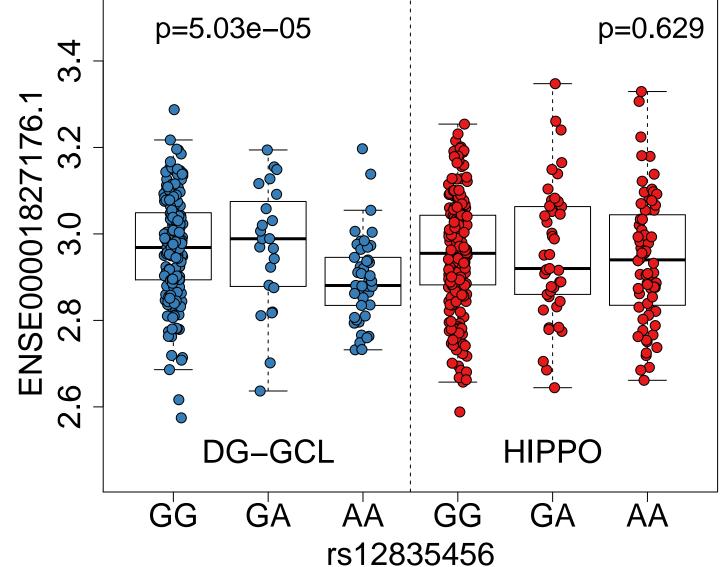
Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=5.03e-05p=0.5933.4 ENSE00001827176.1 3.2 3.0 2.8 2.6 DG-GCL **HIPPO** AΑ ΑT ΑA AT rs12841190

Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=5.03e-05p=0.593

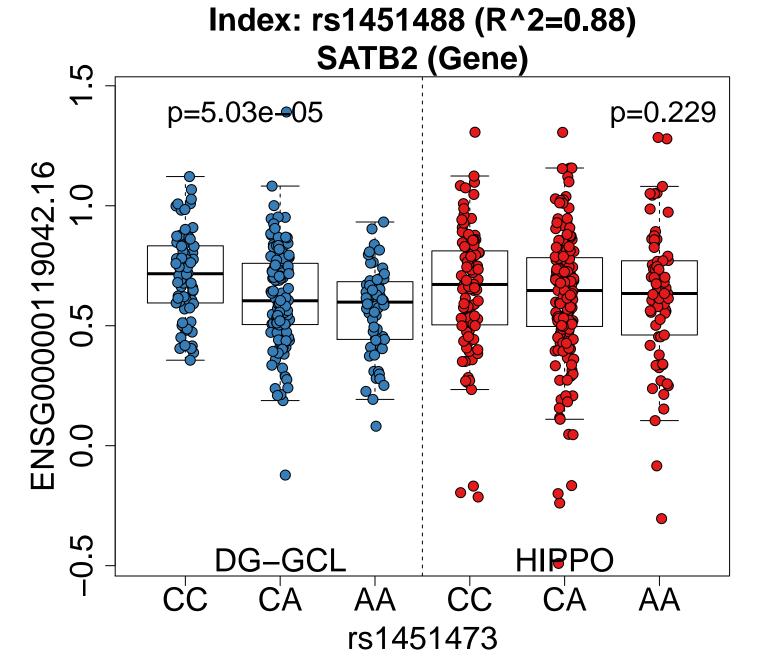


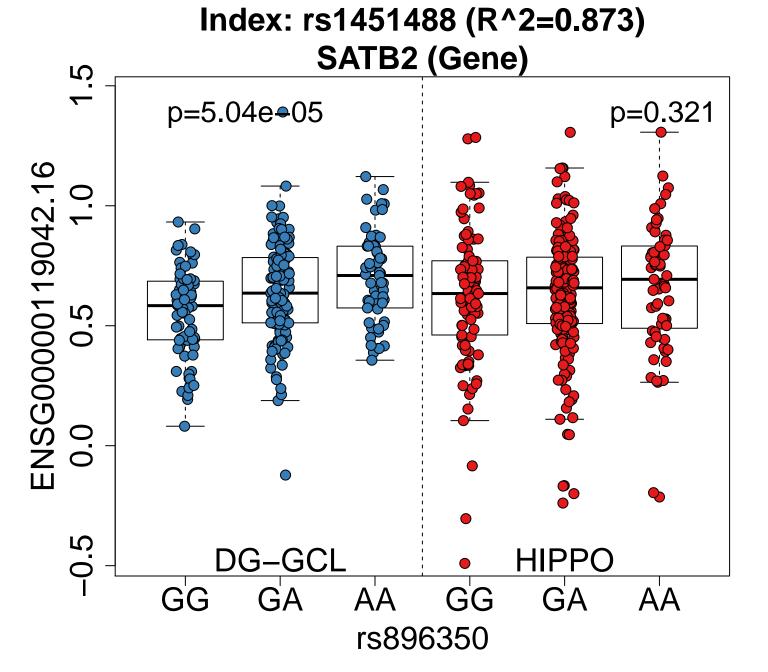
3.4

Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)**

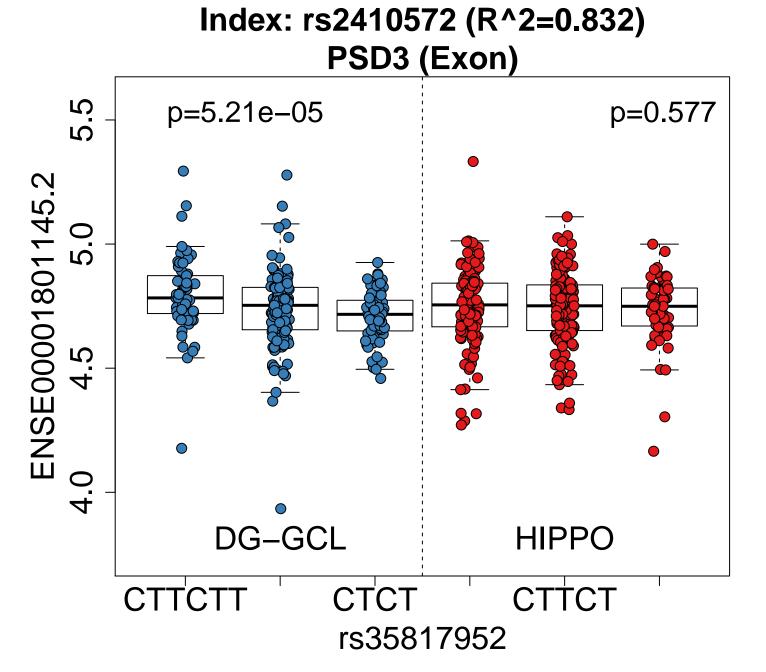


Index: rs12009217 (R^2=0.983) **NLGN4X (Exon)** p=5.03e-05p=0.6293.4 ENSE00001827176.1 3.0 2.8 2.6 DG-GCL **HIPPO** CC CC CA ΑA CA rs12861223

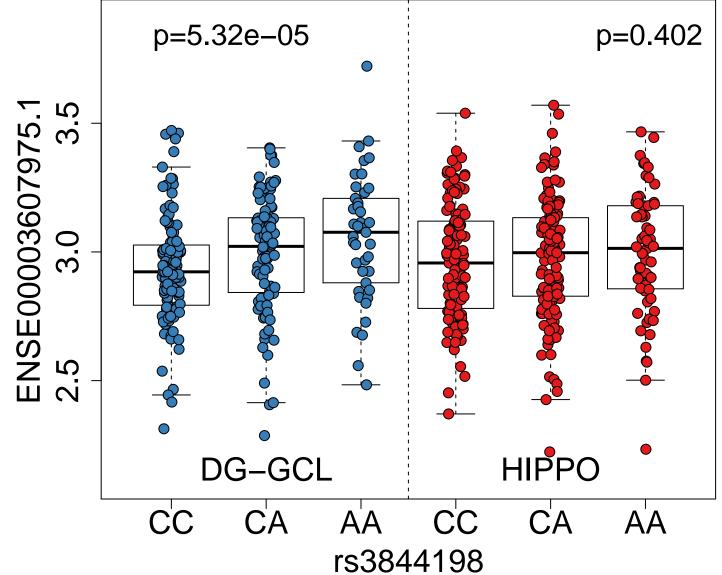




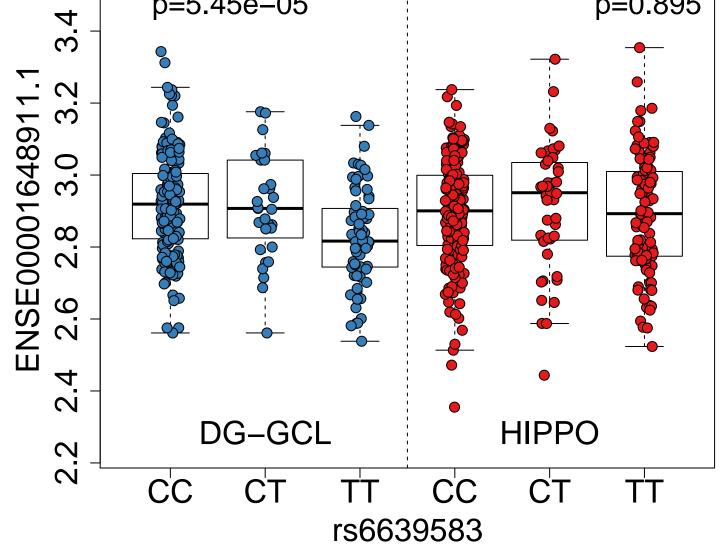
Index: rs2410572 (R^2=0.832) PSD3 (Exon) 5.5 p=5.21e-05p=0.577ENSE00001249934.8 4.5 DG-GCL **HIPPO** CT'CT CTTCTT CTTCT rs35817952

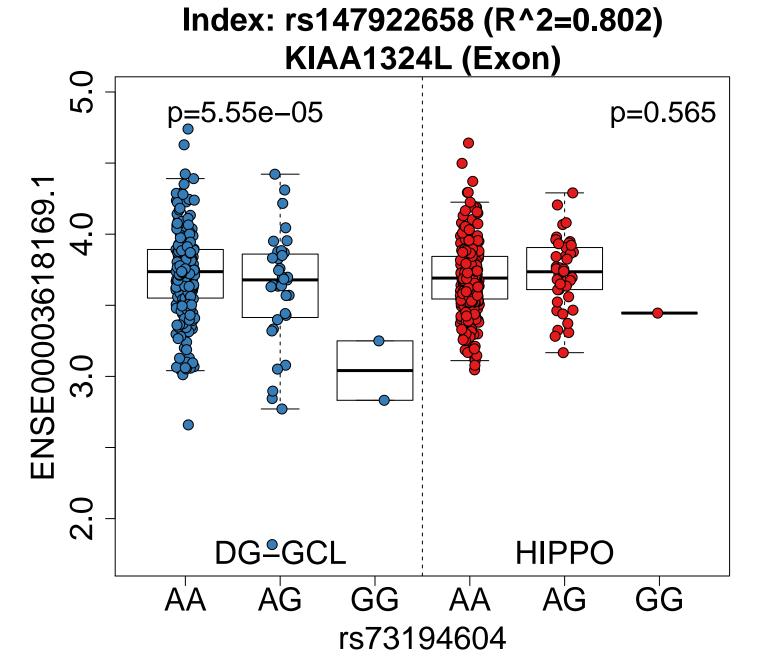


Index: rs7010876 (R^2=0.848) MMP16 (Exon)

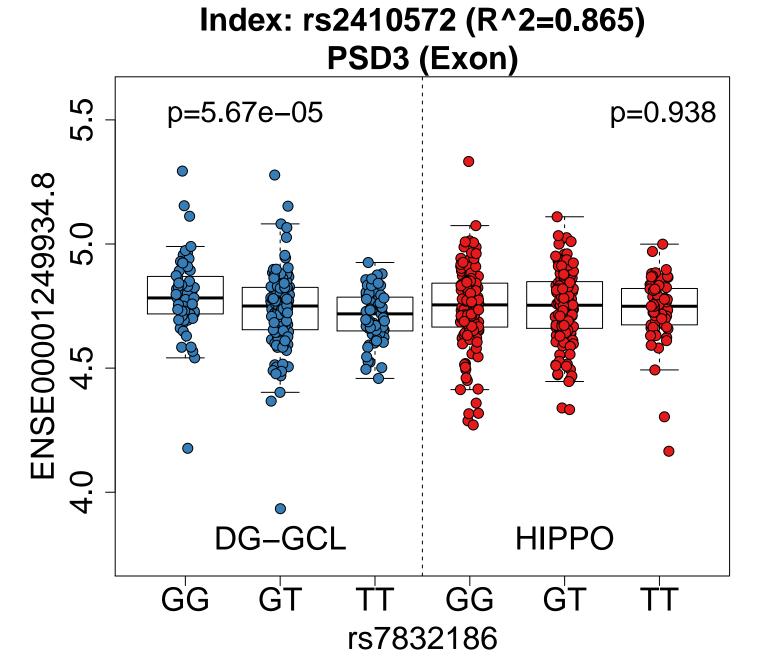


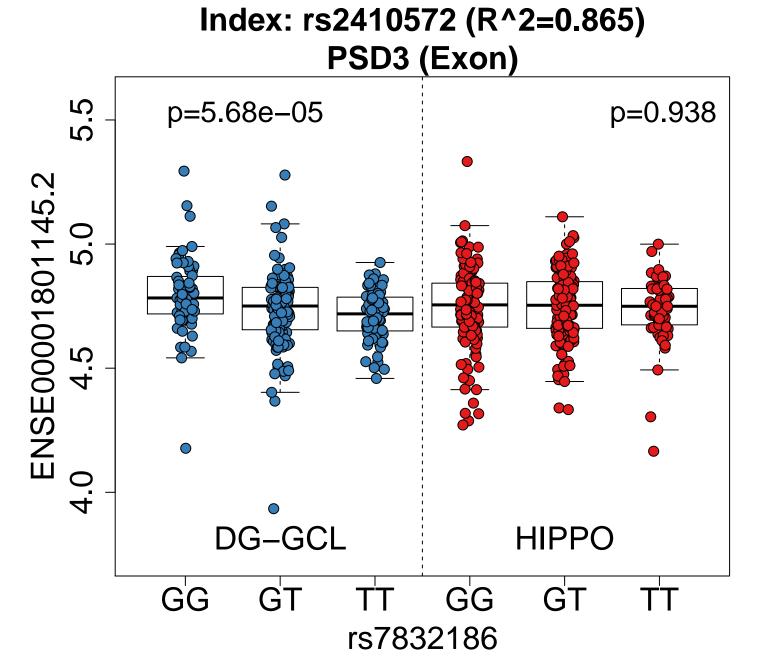
Index: rs12009217 (R^2=0.809) **NLGN4X (Exon)** p=5.45e-05p=0.895





Index: rs1080500 (R^2=0.941) ITIH4 (Exon) p=5.63e-05 p=0.0171ENSE00001910203.1 1.5 0.5 DG-GCL **HIPPO** GΑ GG GG GA AA rs11713763





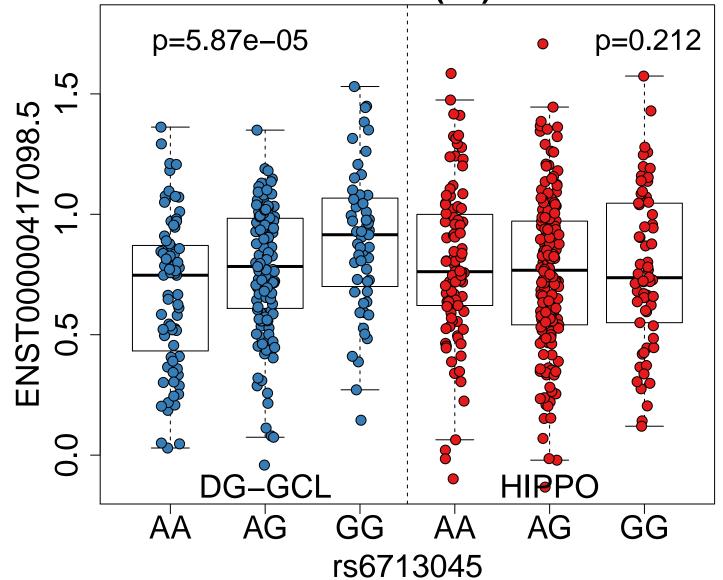
Index: rs35736453 (R^2=0.957) **THEMIS (Gene)** p=5.84e-05p=0.466ENSG00000172673.10 .0 0.5 1.0 **HIPPO** TAACT TAAC TAAC

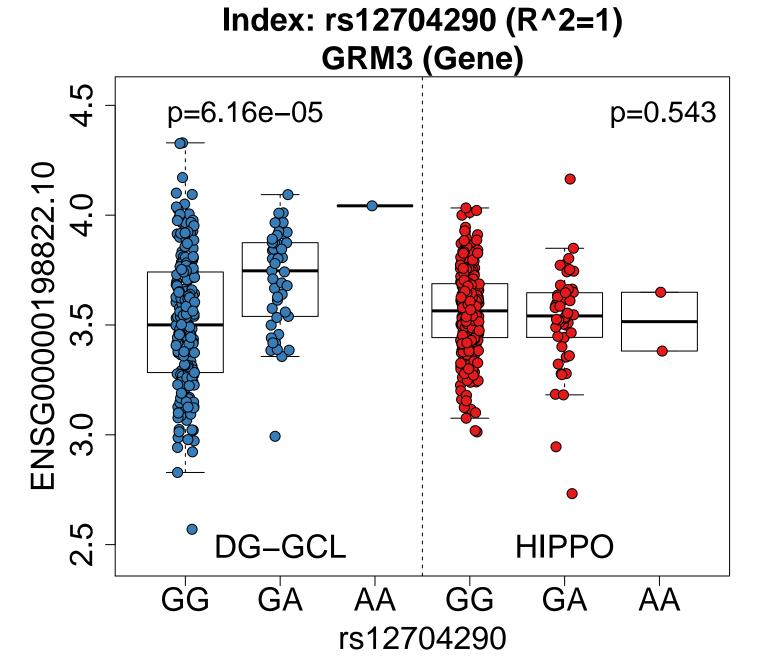
rs34264133

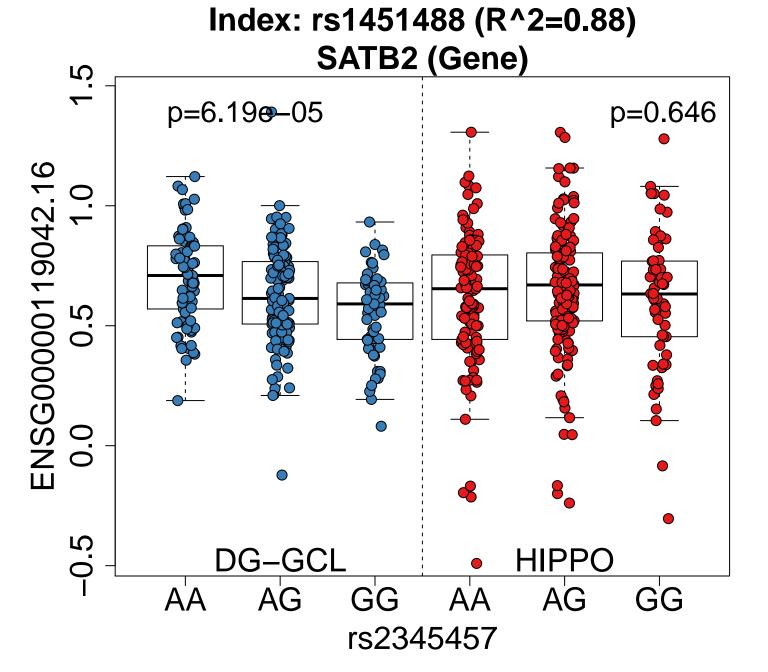
1.5

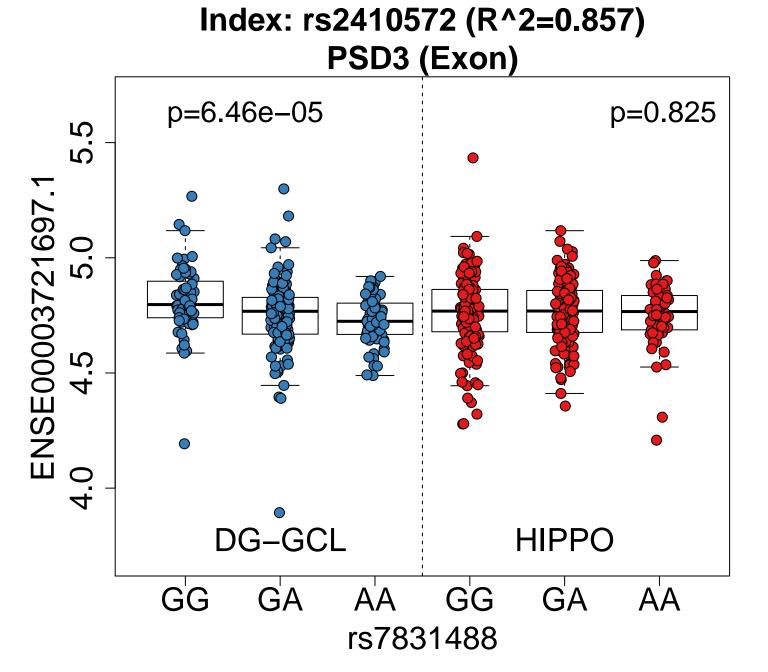
Index: rs281299 (R^2=1) SEMA6D (Jxn) p=5.85e-05p=0.417chr15:47764306–47764637(+) 9 2 DG-GCL **HIPPO** CC TC CC TC rs281299

Index: rs1451488 (R^2=0.835) SATB2 (Tx)

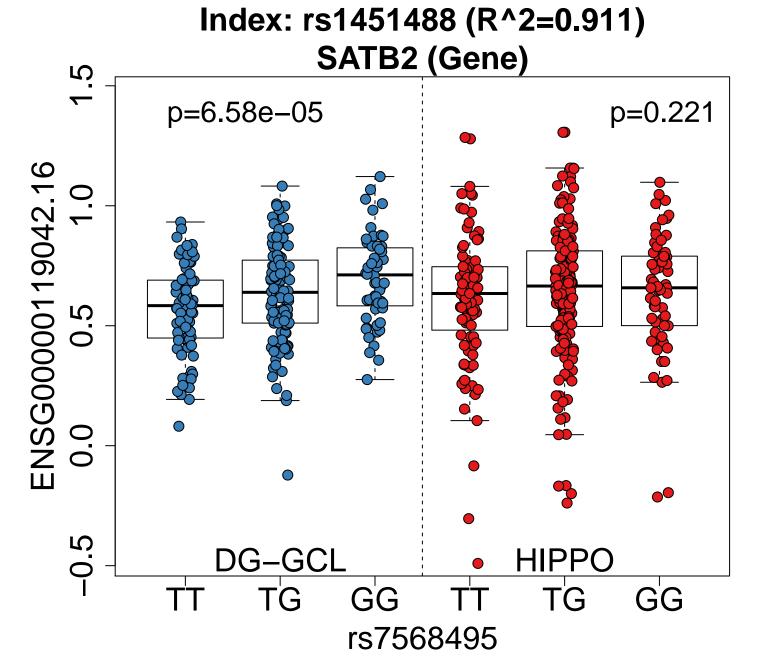


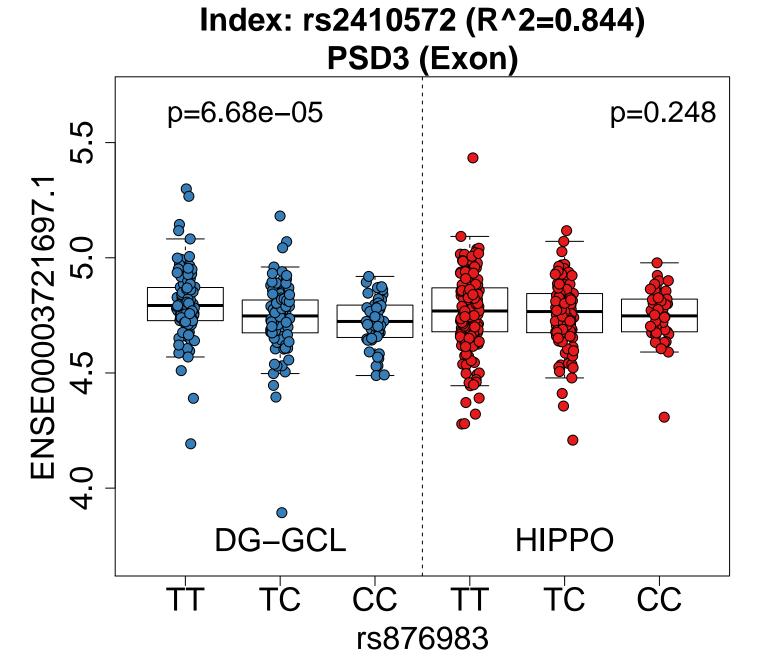




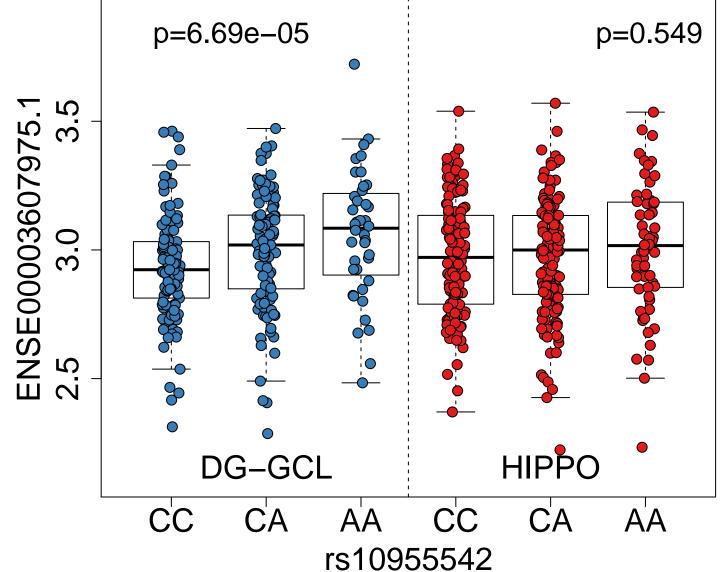


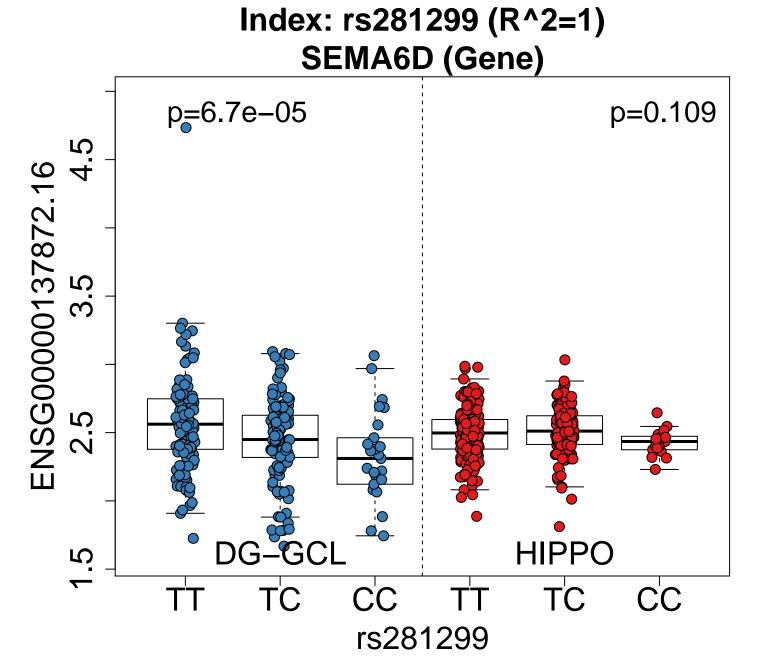
Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=6.51e-05p=0.574ENSE00001487507.3 3 2.8 3.0 3.2 2.8 2.6 DG-GCL **HIPPO** CC CC rs67722849





Index: rs7010876 (R^2=0.843) MMP16 (Exon)





Index: rs2410572 (R^2=0.857) PSD3 (Exon) 5.5 p=6.71e-05p=0.72ENSE00001249934.8 4.5 DG-GCL **HIPPO** AΑ ΑT ΑA AT rs13278204

Index: rs2410572 (R^2=0.857) PSD3 (Exon) 5.5 p=6.72e-05p=0.72ENSE00001801145.2 5.0 4.5 DG-GCL **HIPPO** AΑ ΑT Α̈́A AT rs13278204

Index: rs7010876 (R^2=0.803) **MMP16 (Tx)** p=6.75e-05p=0.765DG-GCL **HIPPO** AΑ Α̈́A rs11986810

ENST00000286614.10 2.5 3.0

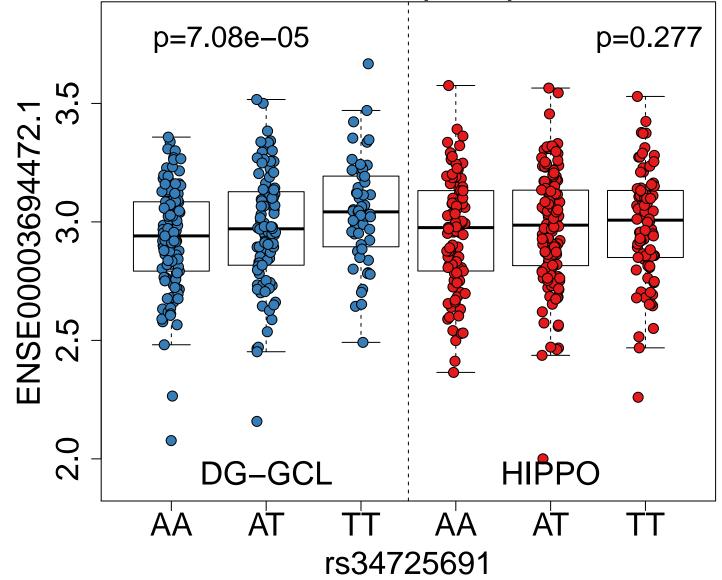
Index: rs2410572 (R^2=0.865) PSD3 (Exon) 5.5 p=6.75e-05p = 0.75ENSE00001249934.8 5.0 4.5 DG-GCL **HIPPO** GG GG **G**T rs35454369

Index: rs2410572 (R^2=0.865) PSD3 (Exon) 5.5 p=6.76e-05p = 0.75ENSE00001801145.2 5.0 4.5 DG-GCL **HIPPO** GG GG **G**T rs35454369

Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=6.85e-05p=0.6033.4 ENSE00001815189.1 3.0 2.8 2.6 DG-GCL **HIPPO** 2.4 CC CC rs67722849

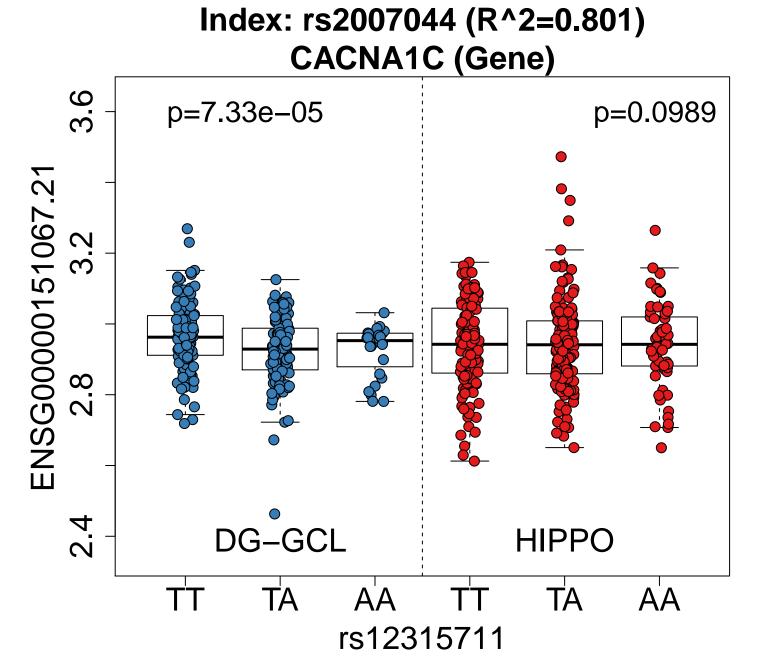
Index: rs1451488 (R^2=0.911) SATB2 (Exon) p=7.05e=05 p=0.721ENSE00001831321.1 0.0 1.0 TG GG TG GG rs7568495

Index: rs7010876 (R^2=0.996) MMP16 (Exon)

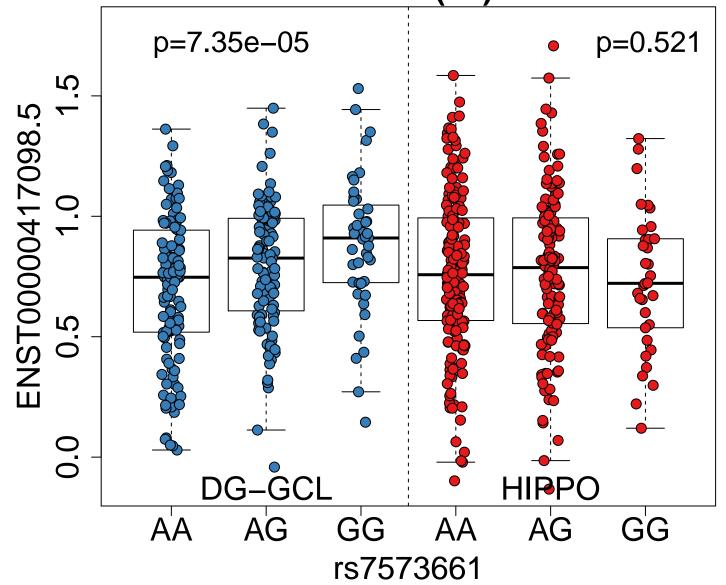


Index: rs2410572 (R^2=0.832) PSD3 (Exon) p=7.09e-05p=0.5455.5 ENSE00003721697.1 0 4.5 5.0 DG-GCL **HIPPO** CTTCTT CT'CT CTTCT rs35817952

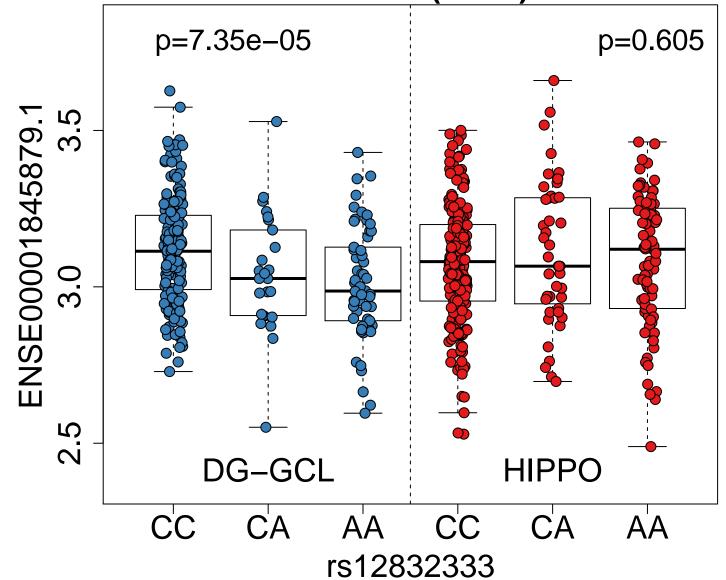
Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=7.1e-05p=0.5733.4 ENSE00001827176.1 3.0 2.8 2.6 DG-GCL **HIPPO** CC CC rs67722849

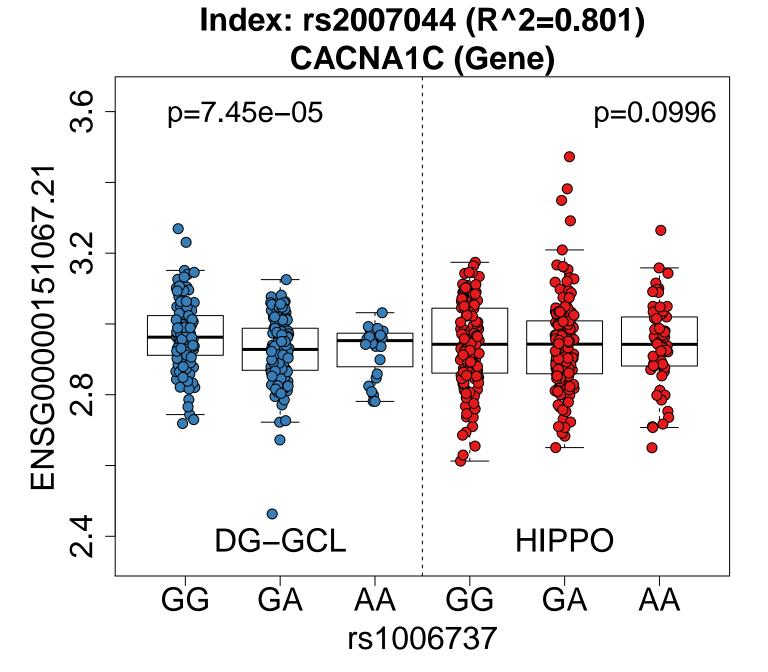


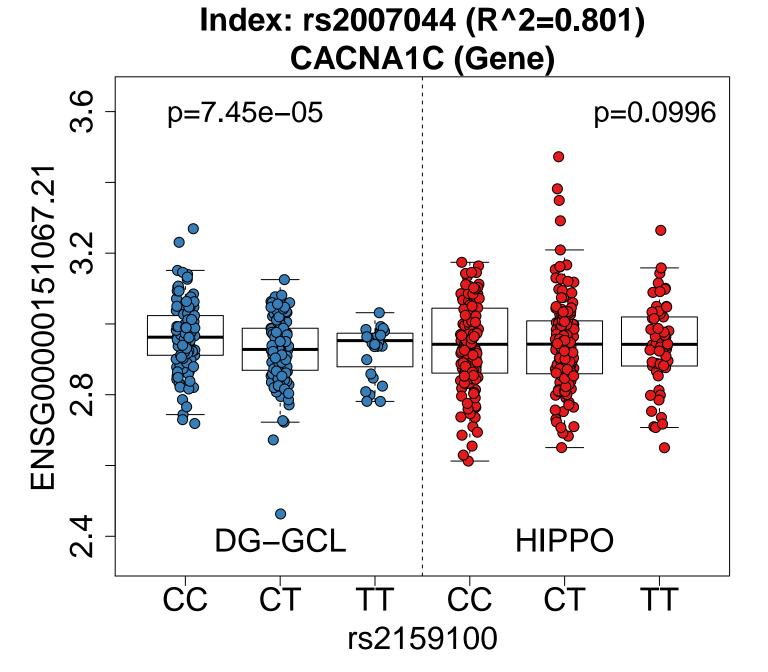
Index: rs1451488 (R^2=0.907) SATB2 (Tx)

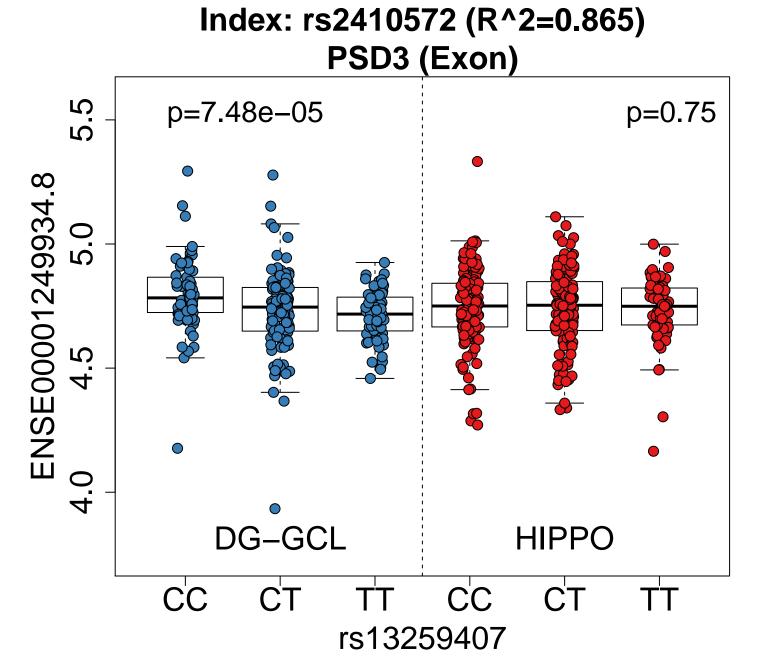


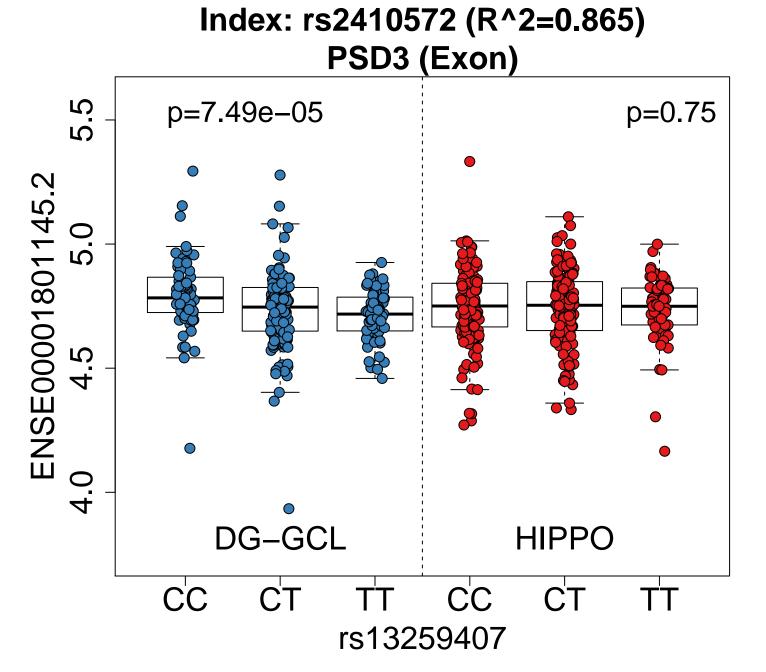
Index: rs12009217 (R^2=0.984) NLGN4X (Exon)



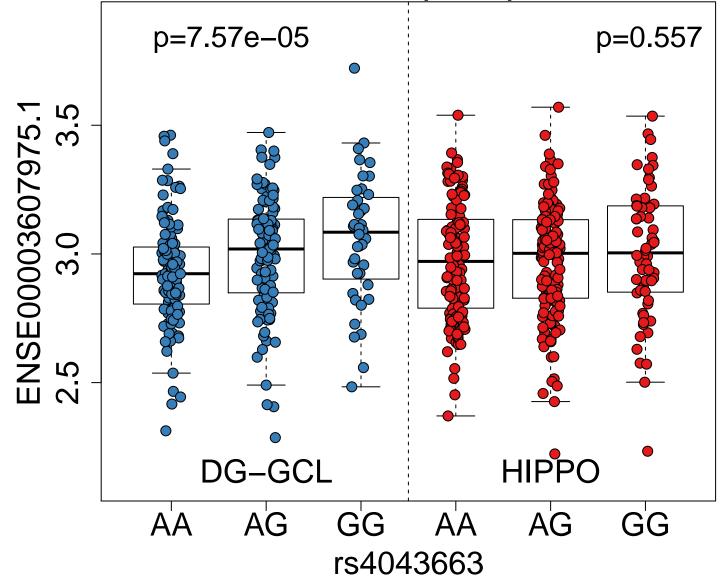


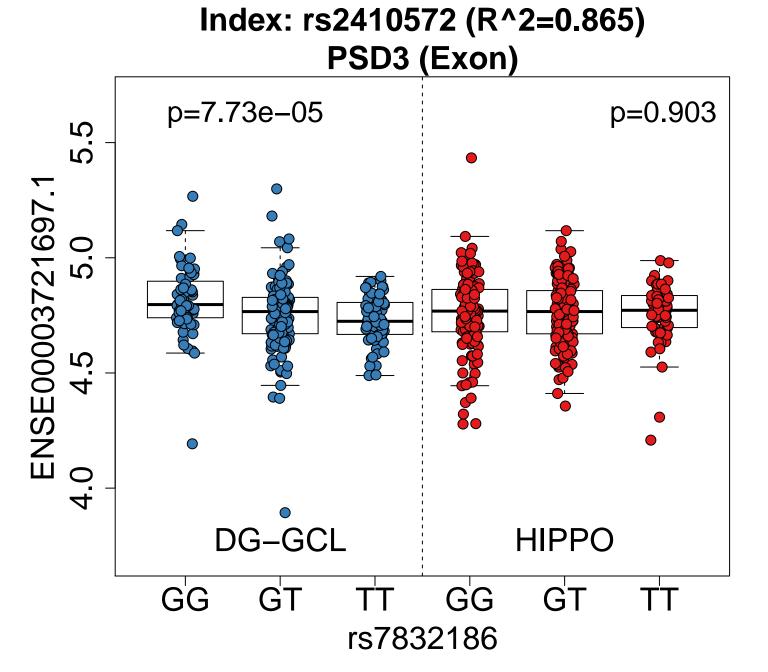




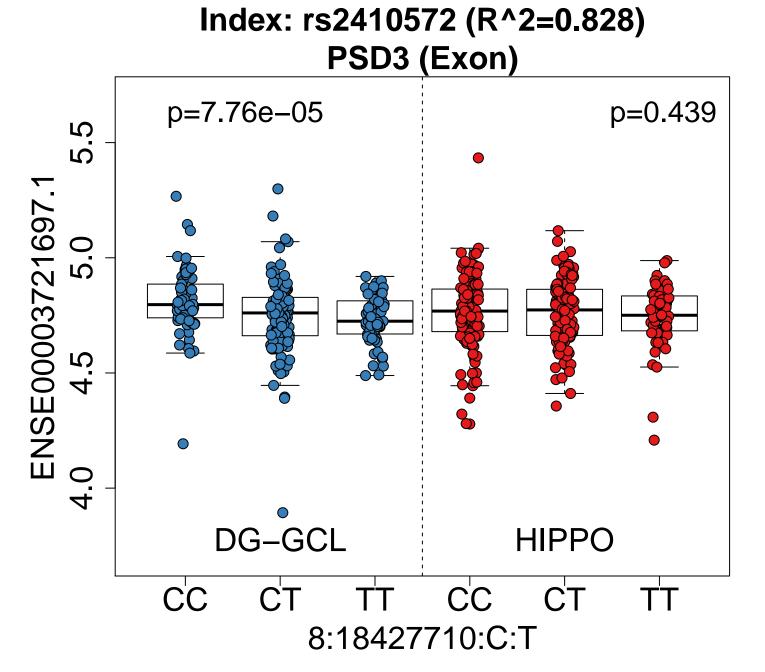


Index: rs7010876 (R^2=0.843) MMP16 (Exon)

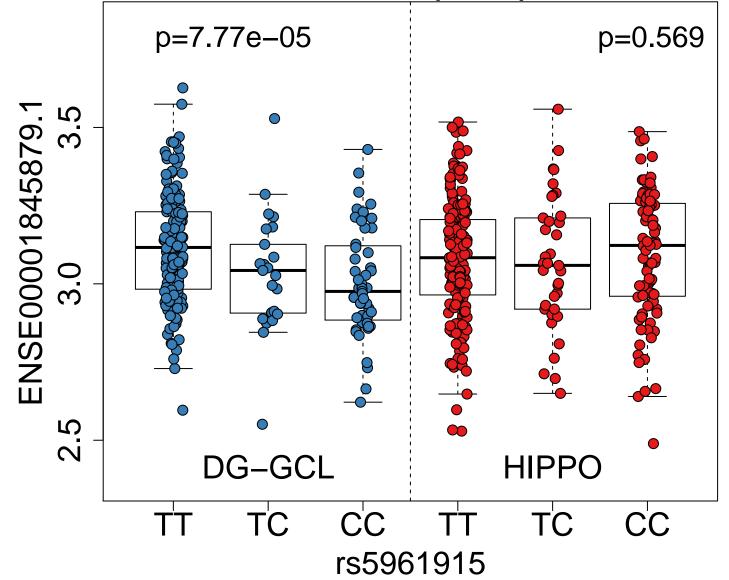


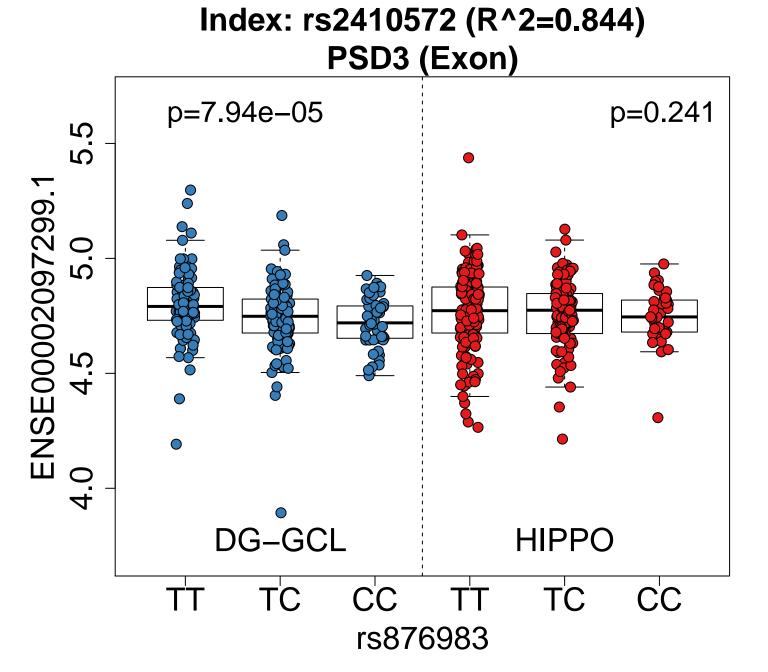


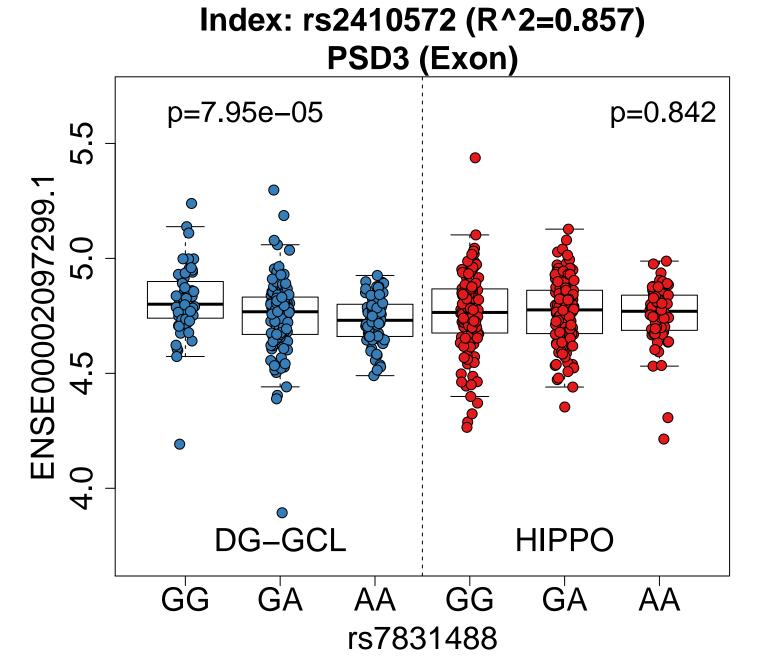
Index: rs12704290 (R^2=0.968) GRM3 (Exon) p=7.74e-05p=0.658ENSE00001621224.2 2.5 3.0 3.5 DG-GCL **HIPPO** AATA AA TA rs13230421

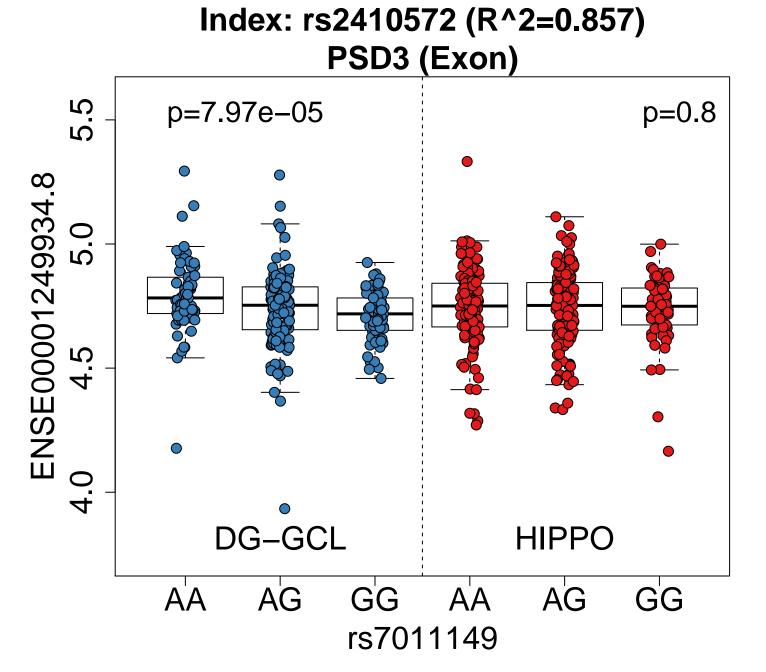


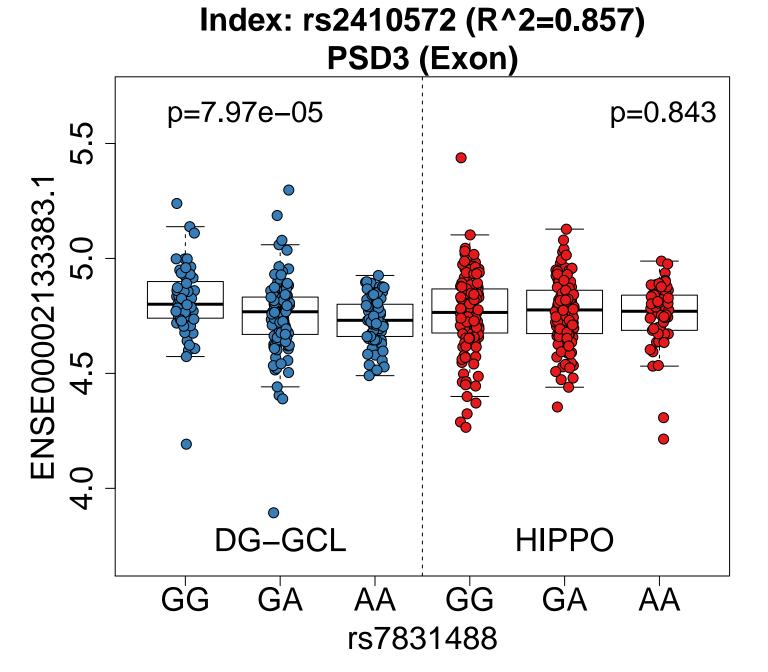
Index: rs12009217 (R^2=0.824) NLGN4X (Exon)

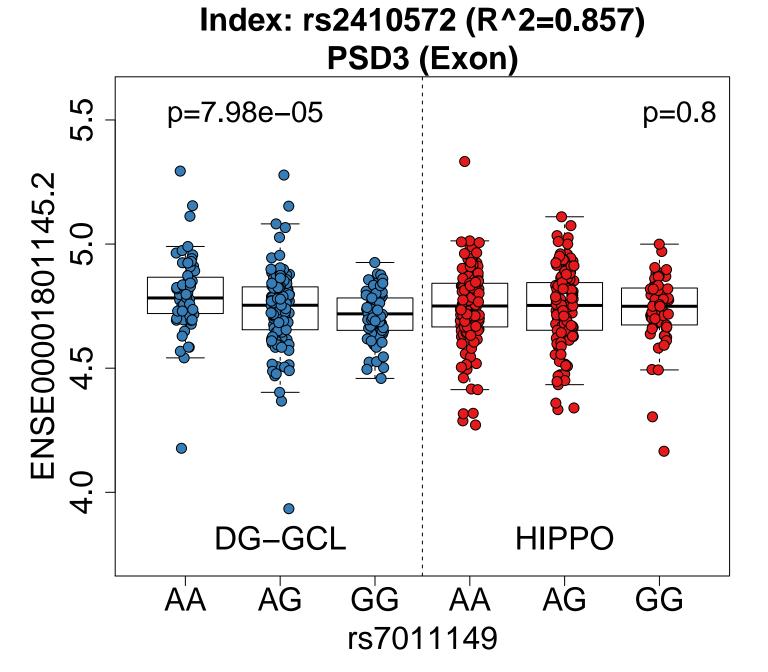


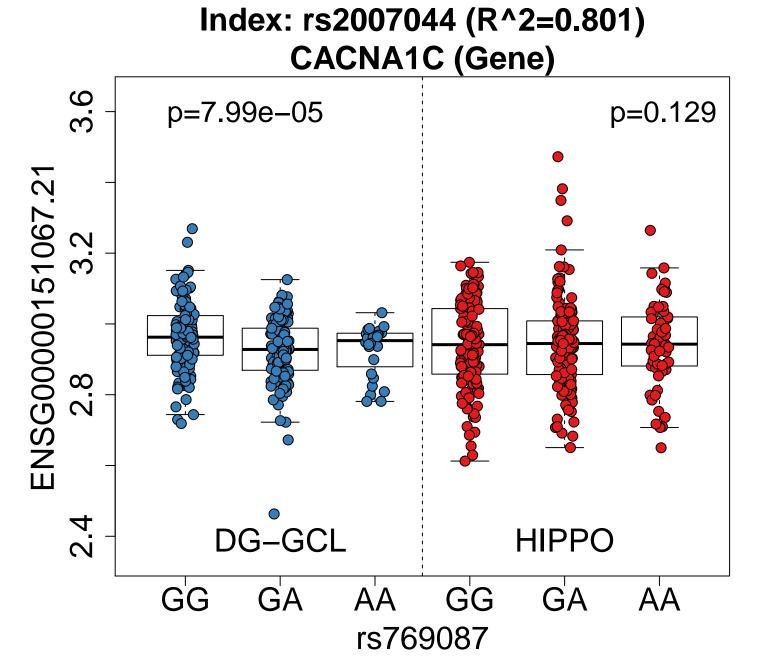


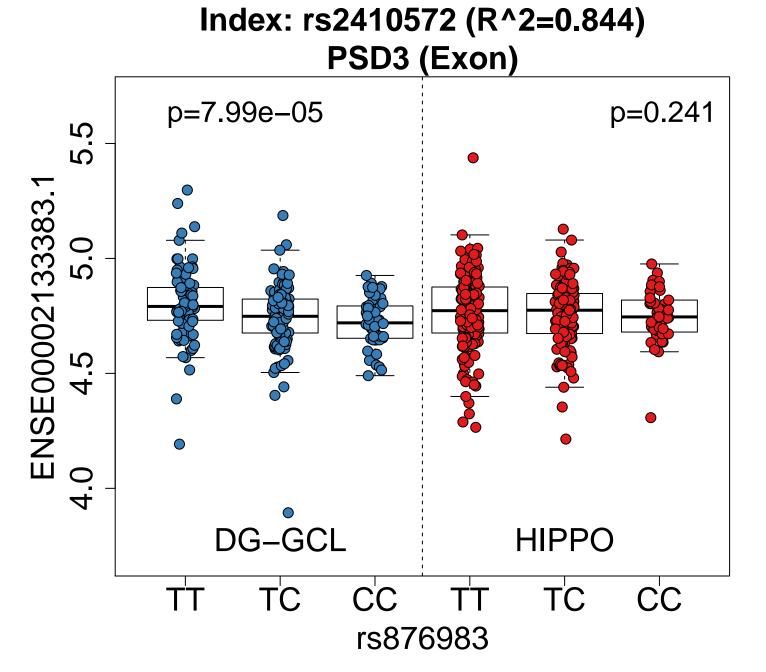


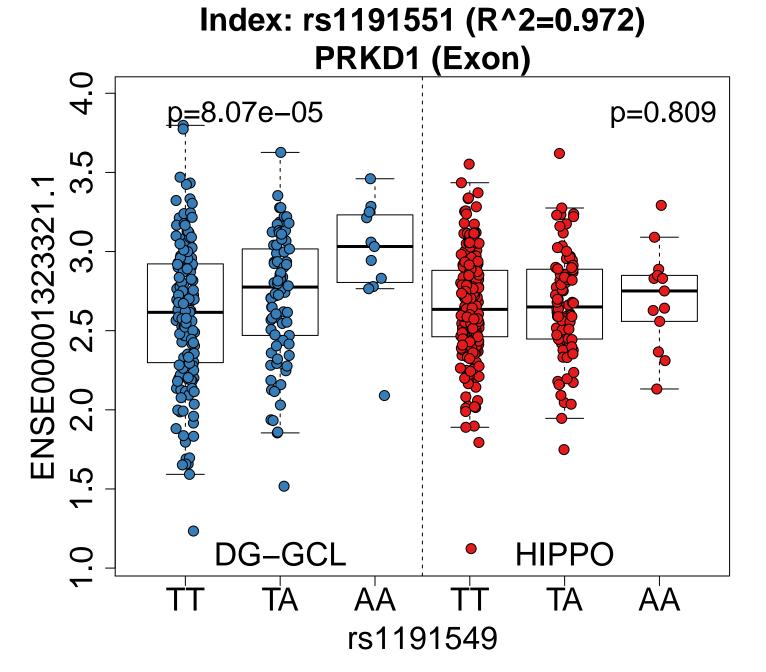


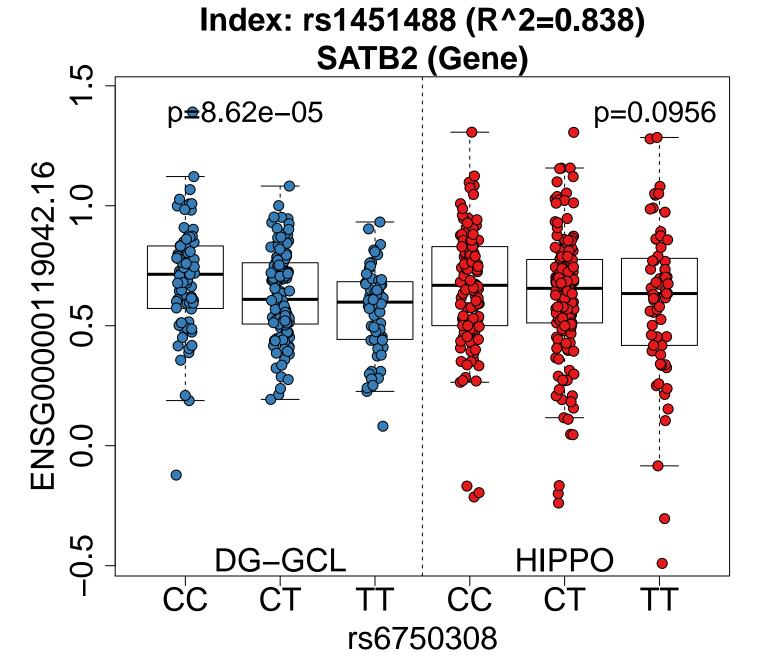


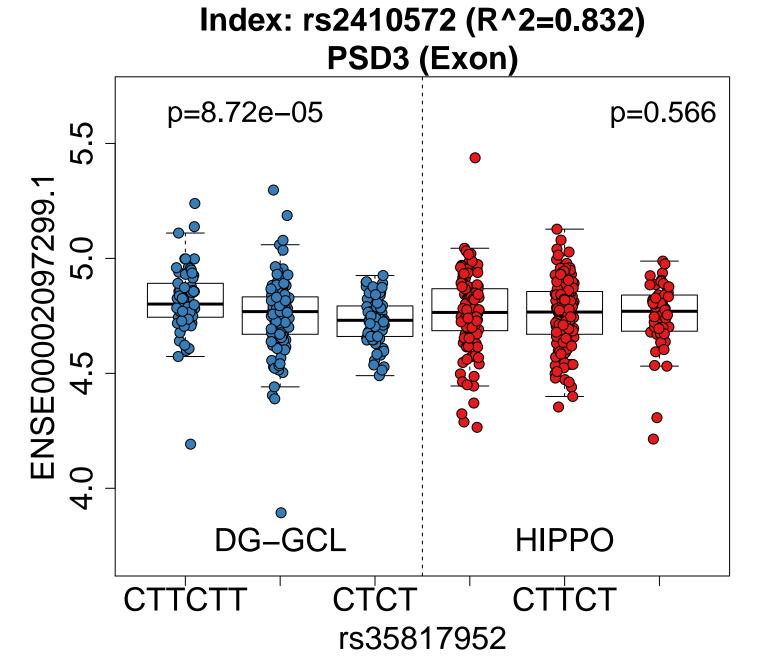


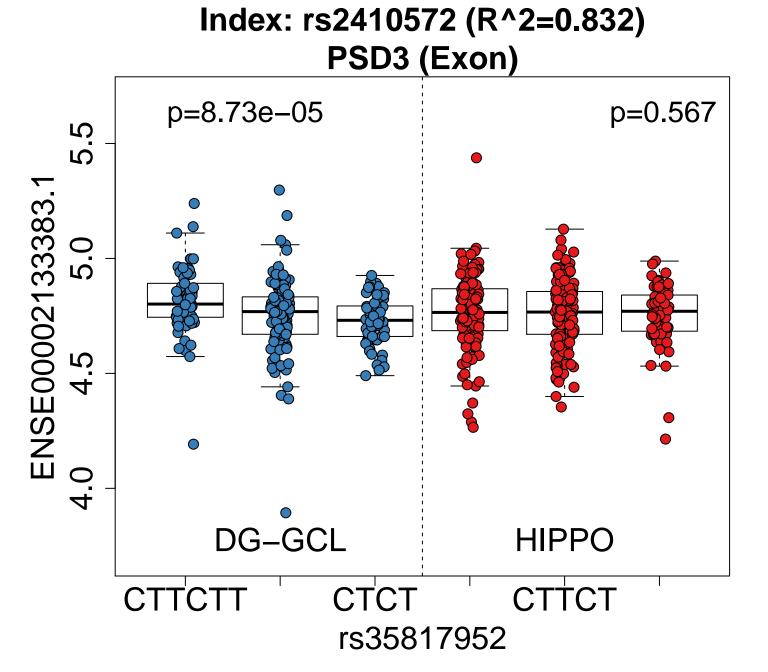




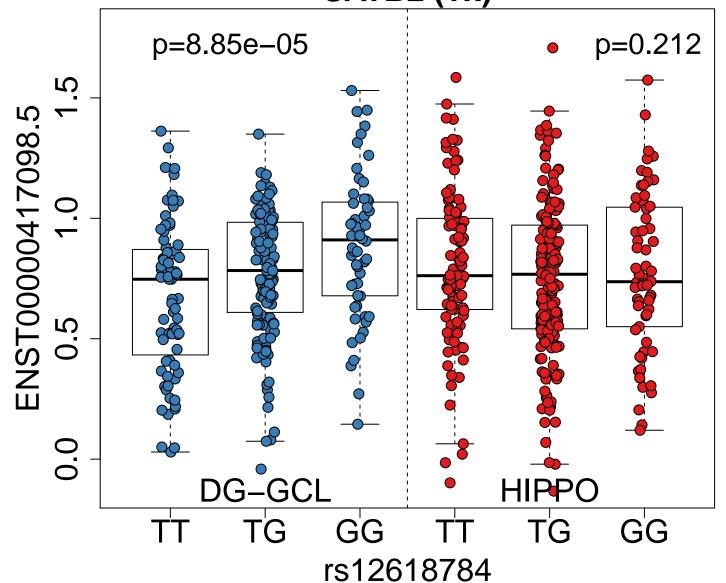








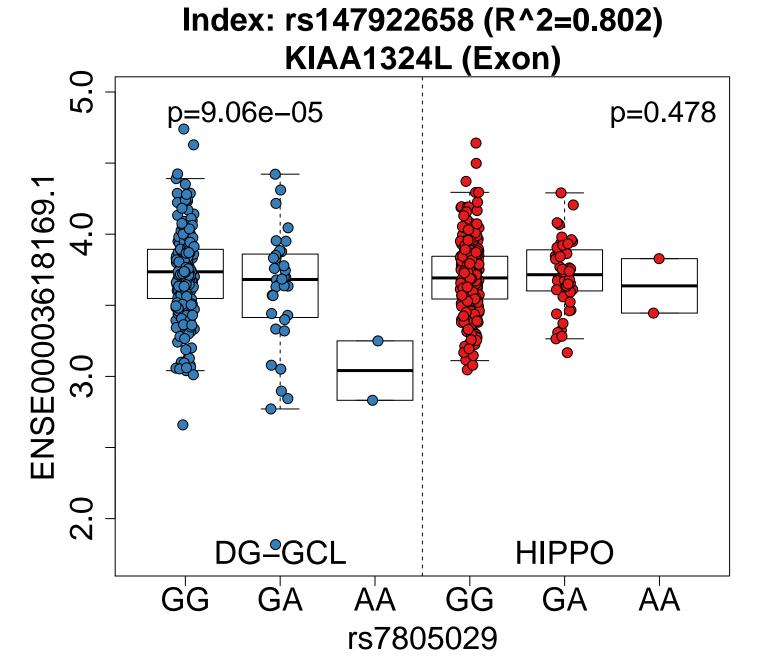
Index: rs1451488 (R^2=0.835) SATB2 (Tx)

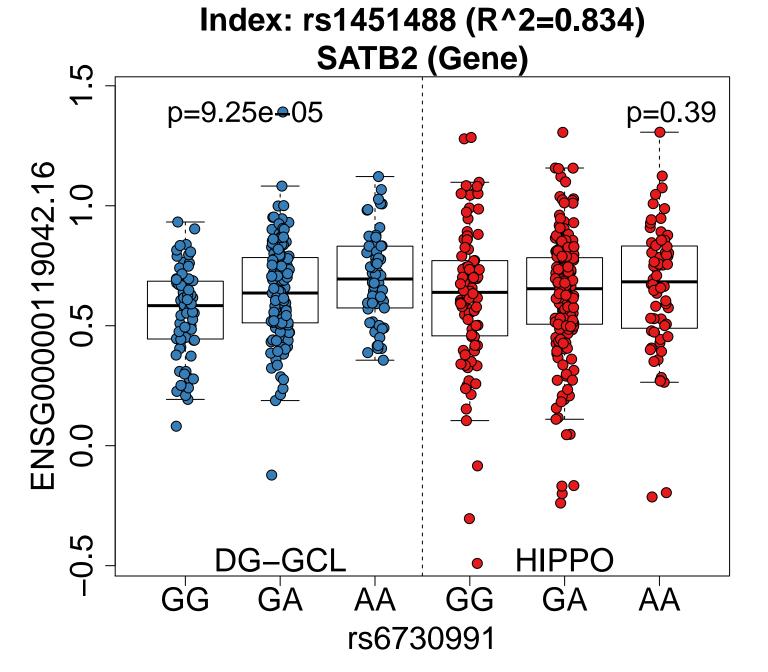


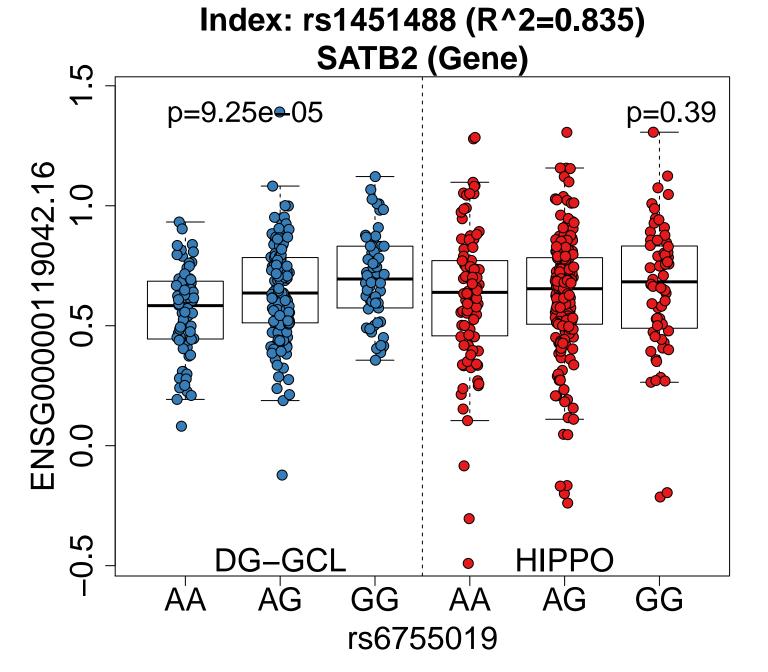
Index: rs12009217 (R^2=0.949) **NLGN4X (Exon)** p=9.02e-05p = 0.813.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 CC CC rs35812438

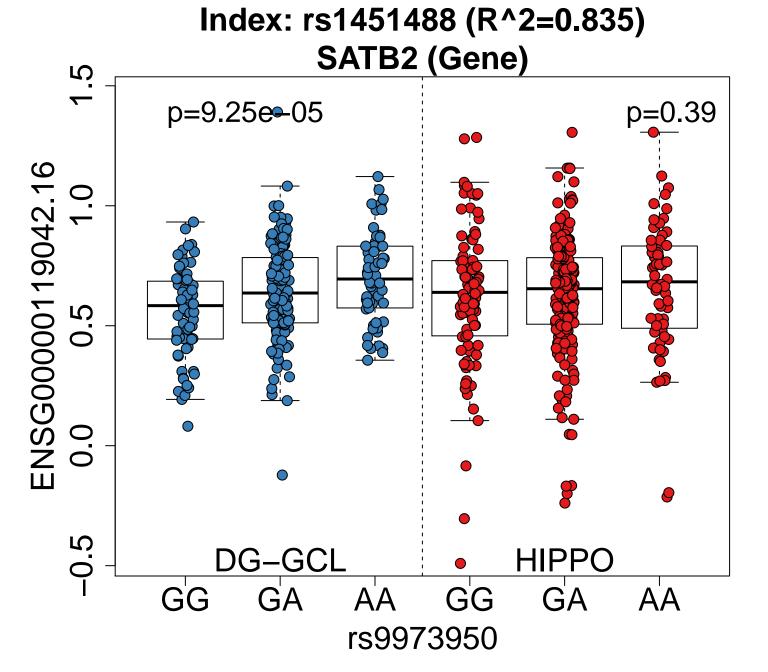
Index: rs12009217 (R^2=0.941) **NLGN4X (Exon)** p=9.02e-05p = 0.813.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 CC CC rs11796483

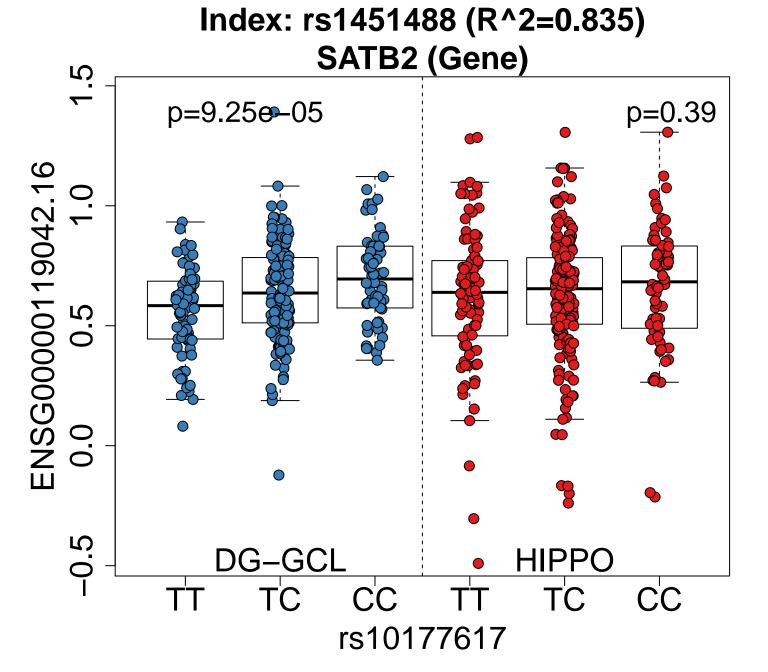
Index: rs12009217 (R^2=0.958) **NLGN4X (Exon)** p=9.02e-05p=0.8233.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 CC CC TC TC rs4330824

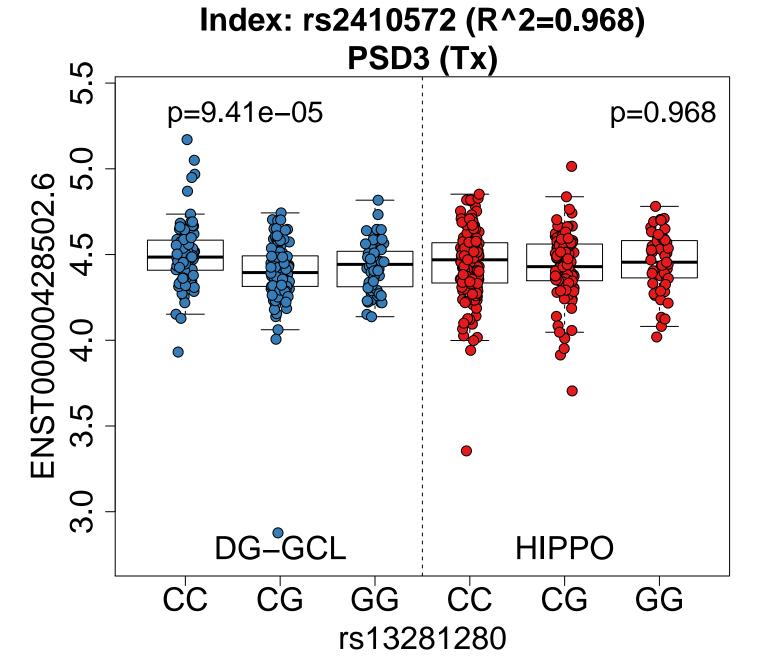


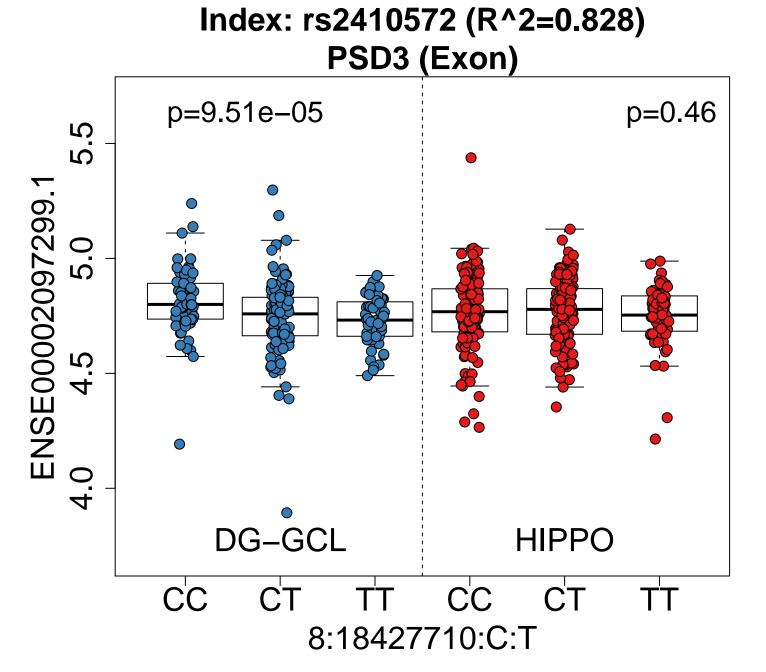


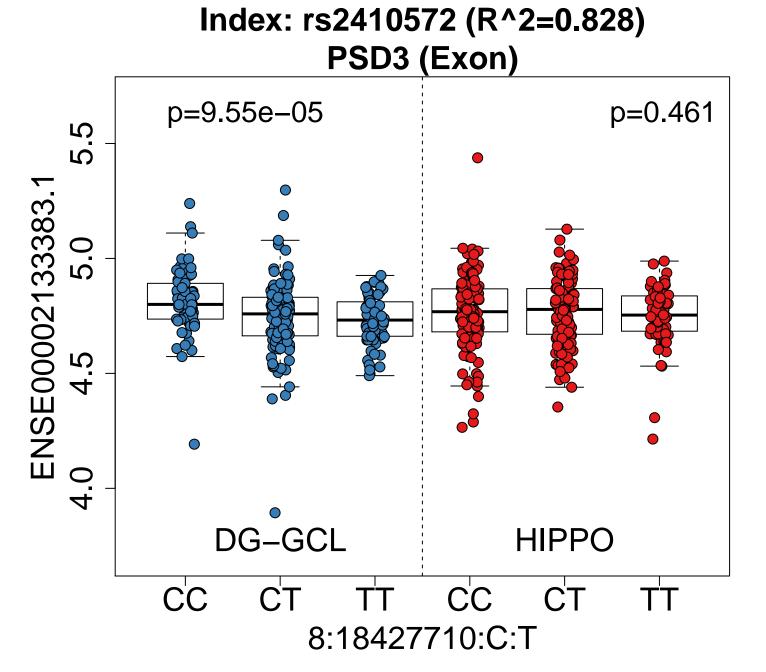




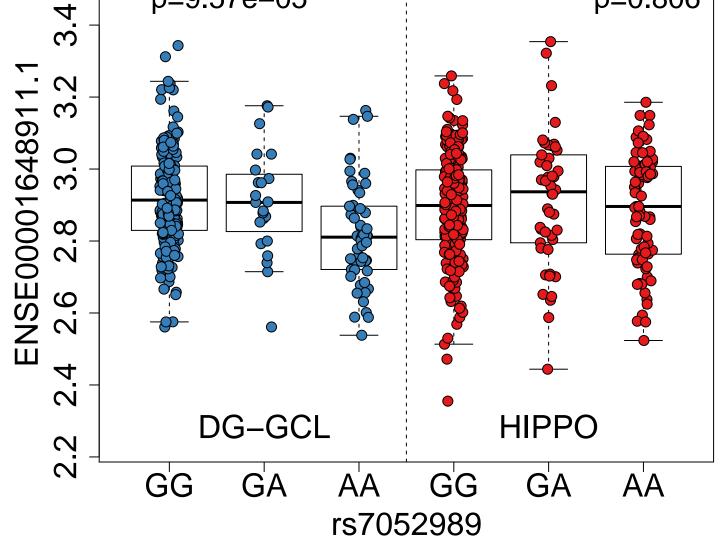


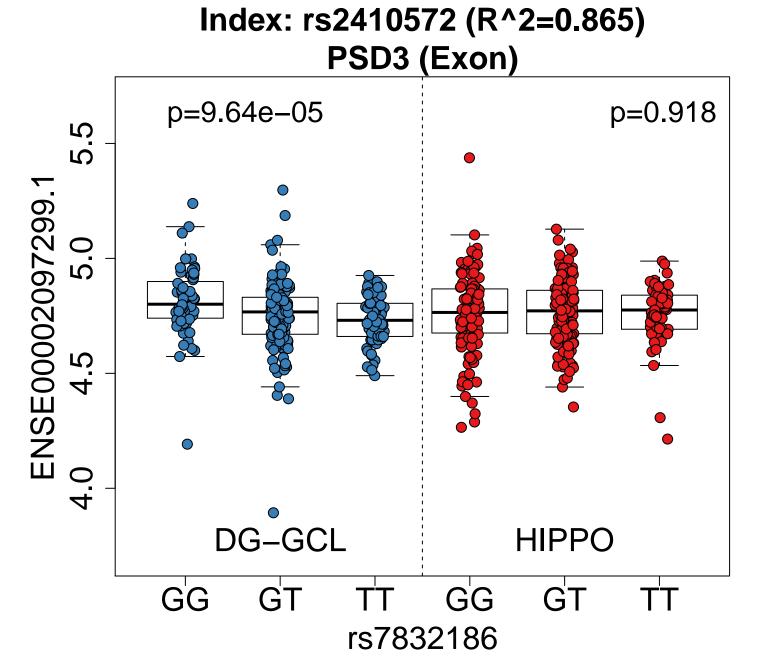






Index: rs12009217 (R^2=0.974) **NLGN4X (Exon)** p=9.57e-05p=0.806



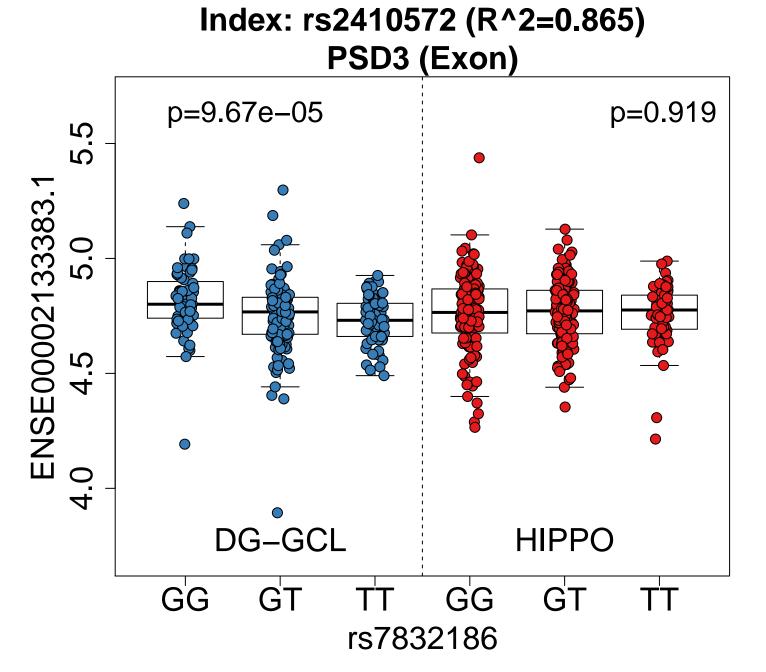


Index: rs1451488 (R^2=0.88) SATB2 (Tx) p=9.65e-05p=0.24260 60 St. St. DG-GCL **HIPPO** C_C CC

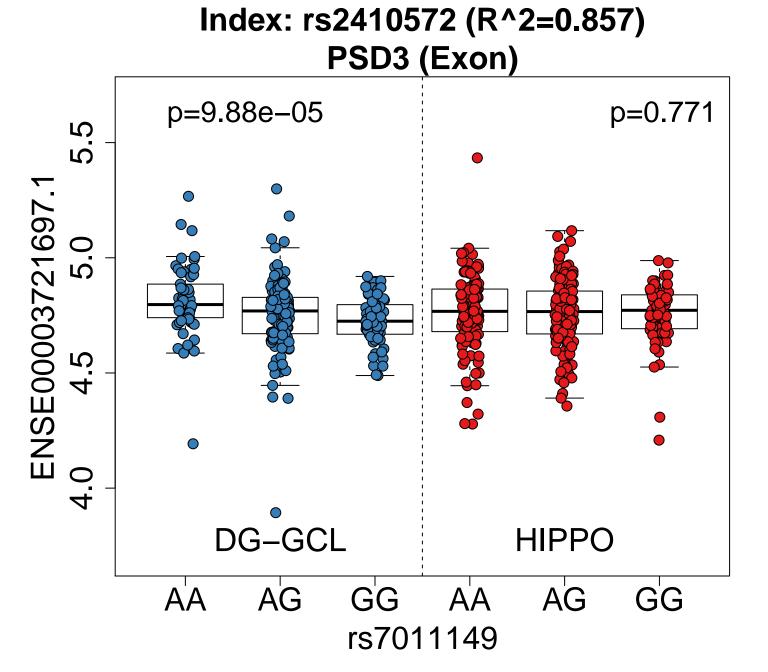
rs16831051

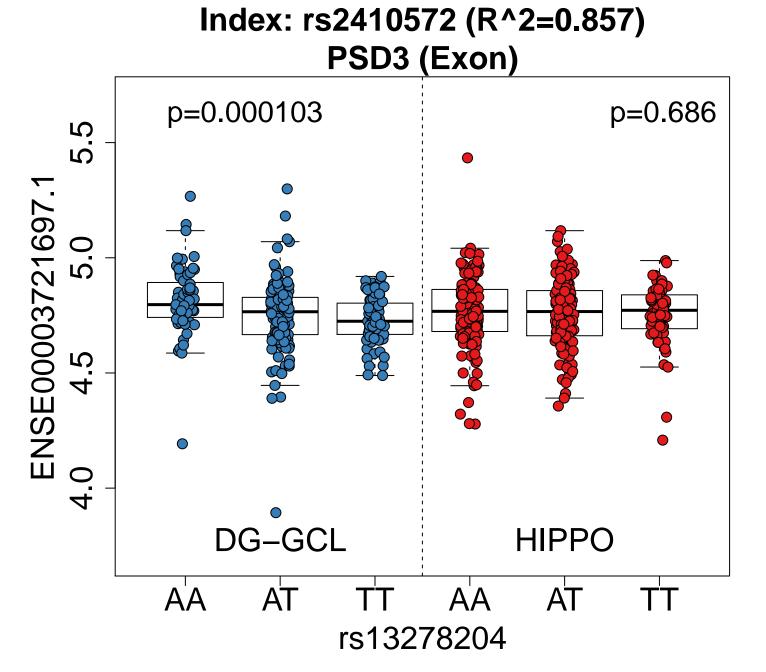
5

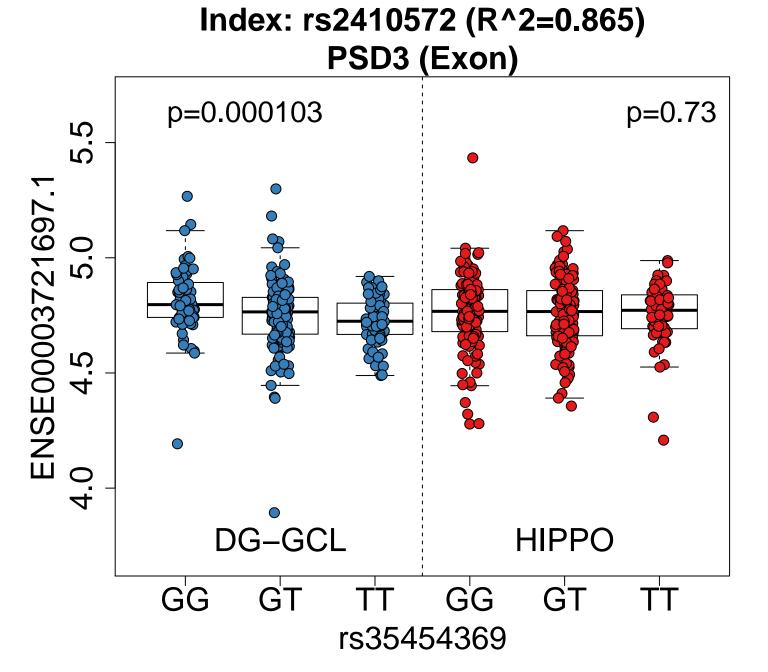
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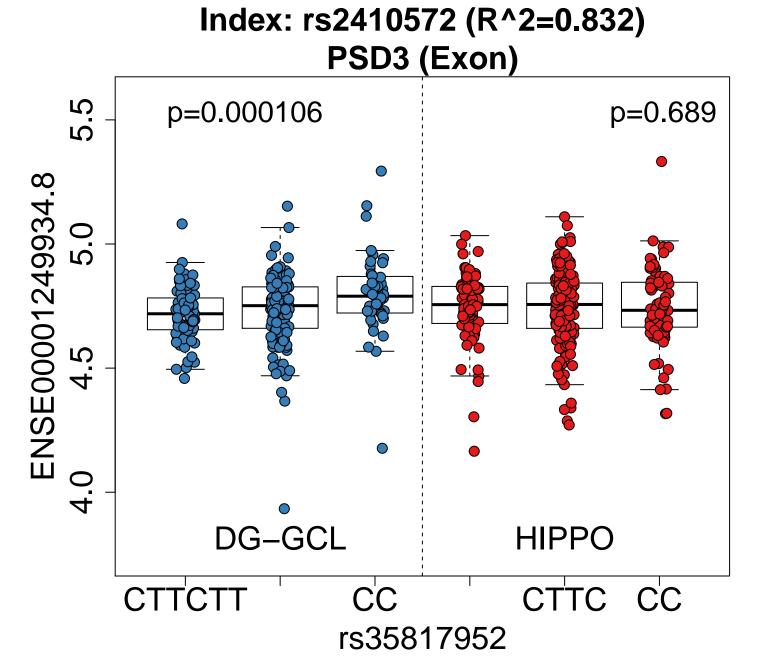


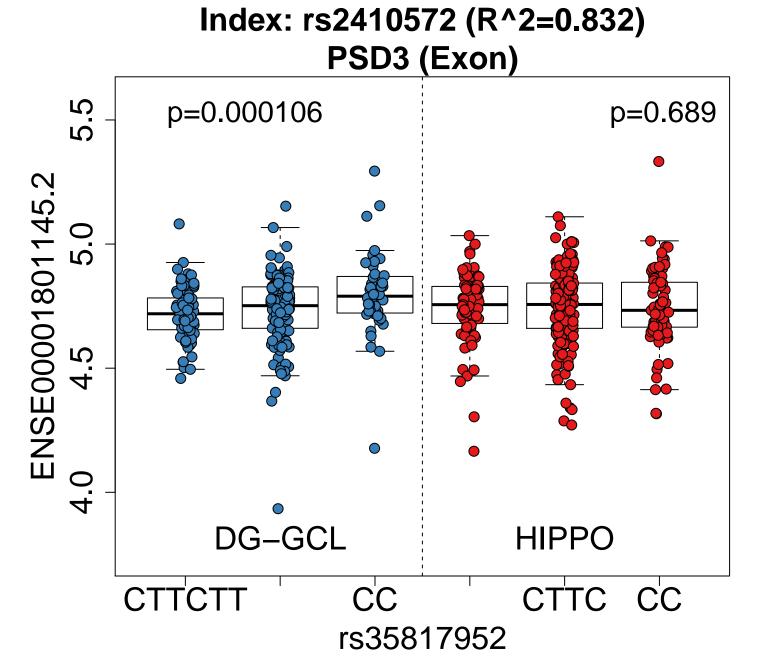
Index: rs1451488 (R^2=0.835) SATB2 (Exon) 2.0 p=9.86e-05p=0.449 1.5 ENSE00000934548.1 0.5 -0.5 DG-GCL **HIPPO** TG GG GG rs12618784









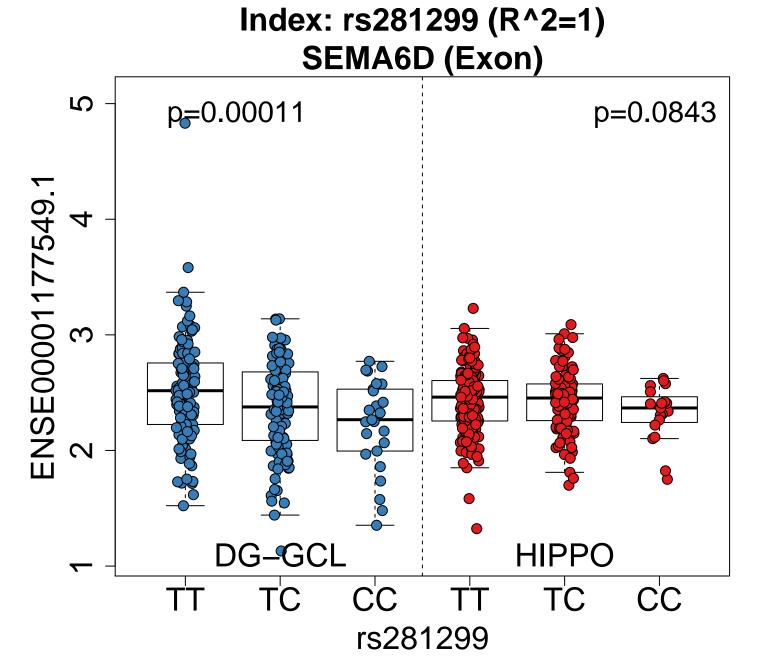


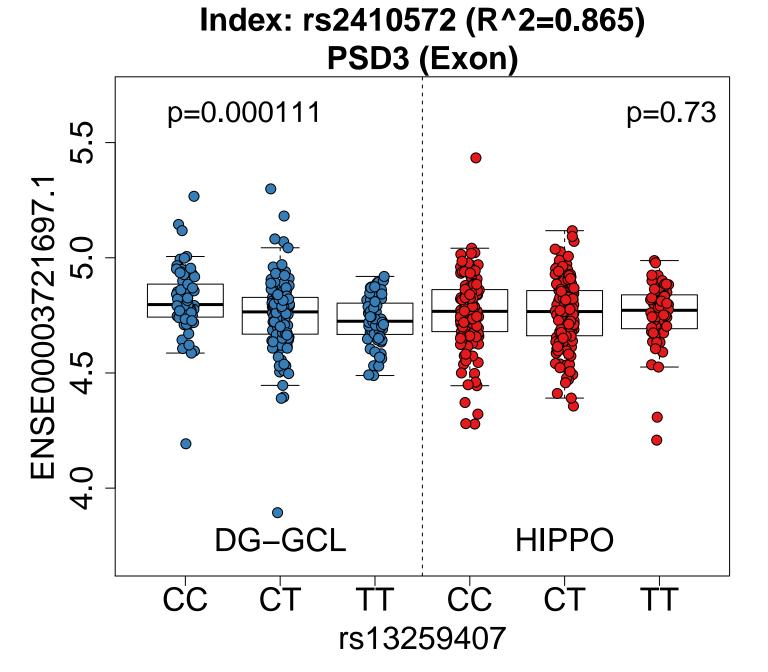
Index: rs12009217 (R^2=0.949) **NLGN4X (Exon)** p=0.000107 p=0.7823.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 CC CC rs35515178

Index: rs12009217 (R^2=0.958) **NLGN4X (Exon)** p=0.000108 p=0.8313.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 GG ΑΑ AG GG ΑA AG rs73184616

Index: rs12009217 (R^2=0.958) **NLGN4X (Exon)** p=0.000108 p=0.8313.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 CCT CC CCT rs58025219

Index: rs7010876 (R^2=0.923) MMP16 (Gene) p=0.000109p = 0.38ENSG00000156103.15 3.0 2.6 DG-GCL **HIPPO** 2.2 GG GG **G**T rs6994019





Index: rs12009217 (R^2=0.956) **NLGN4X (Exon)** p=0.000111 p=0.8153.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 GG ΑΑ AG GG ΑA AG rs11798525

Index: rs2410572 (R^2=0.832) PSD3 (Gene) p=0.000112 p=0.926ENSG00000156011.16 5.5 DG-GCL **HIPPO** 4.5 CTCT CTTCT CTTCTT rs35817952

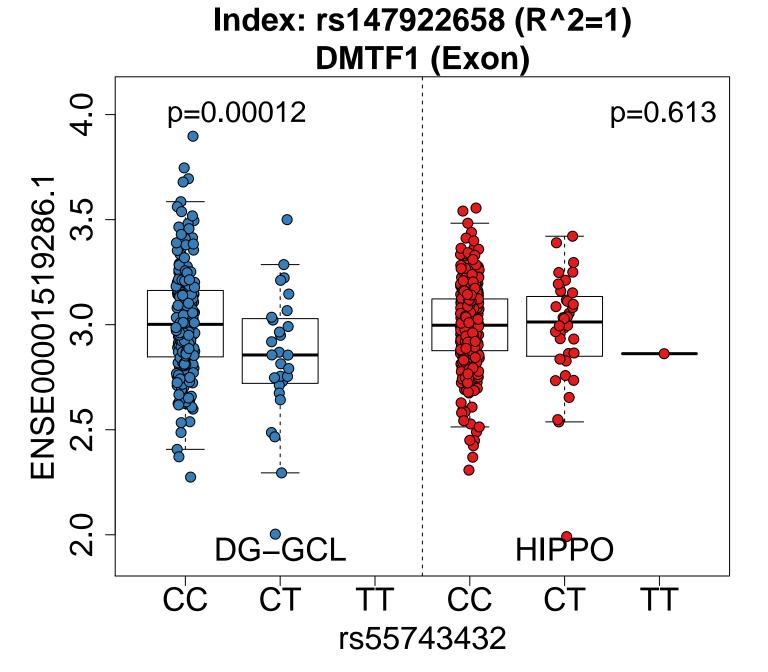
Index: rs1451488 (R^2=0.81) SATB2 (Tx) p=0.000113 p=0.8585 ENST00000417098.5 0.5 DG-GCL **HIPPO** GG TG TG GG rs4459679

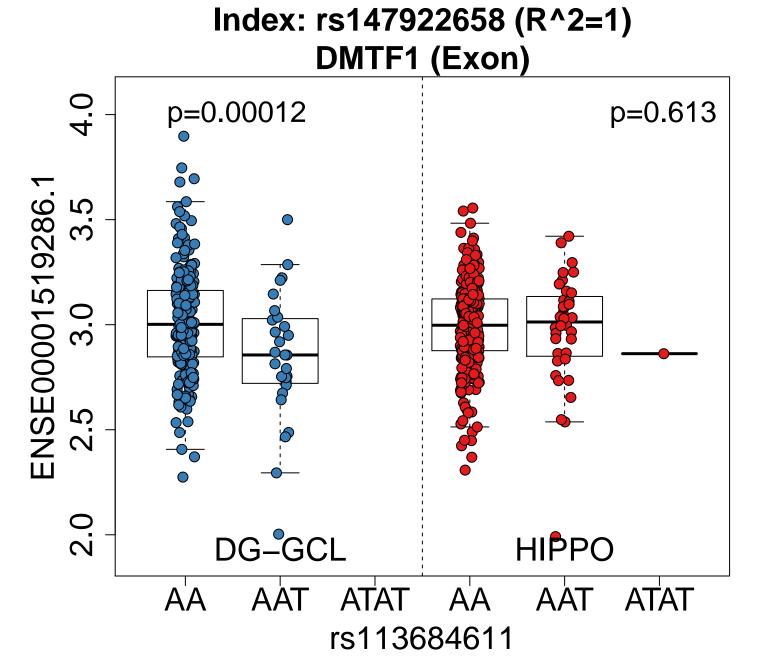
Index: rs760608 (R^2=0.995) (Exon) p=0.0001616 p=0.422ENSE00002135566.1 1.5 0.5 DG-GCL **HIPPO** GG GG rs1337334

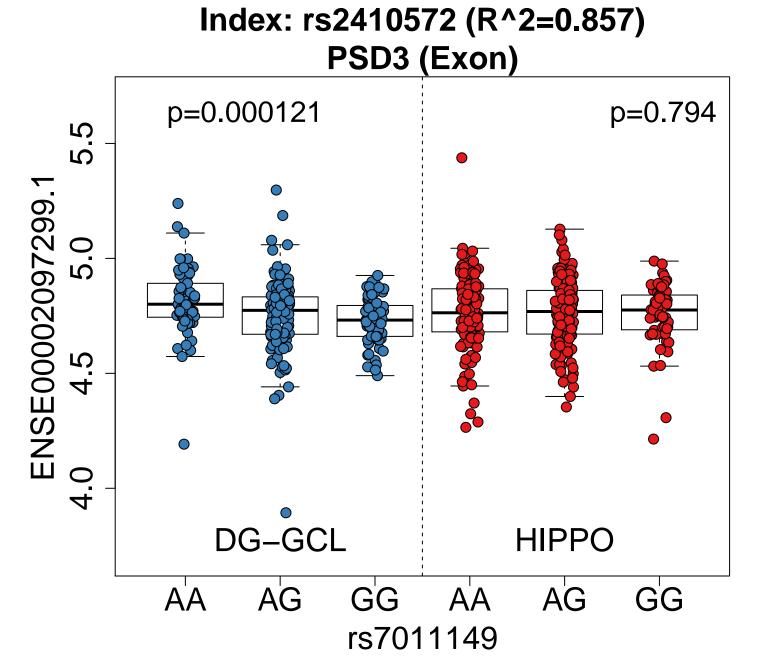
Index: rs4936215 (R^2=0.802) IGSF9B (Exon) p20.000118 p=0.357ENSE00001559691.1 0.5 -0.5 DG-GCL **HIPPO** GG GG rs73036065

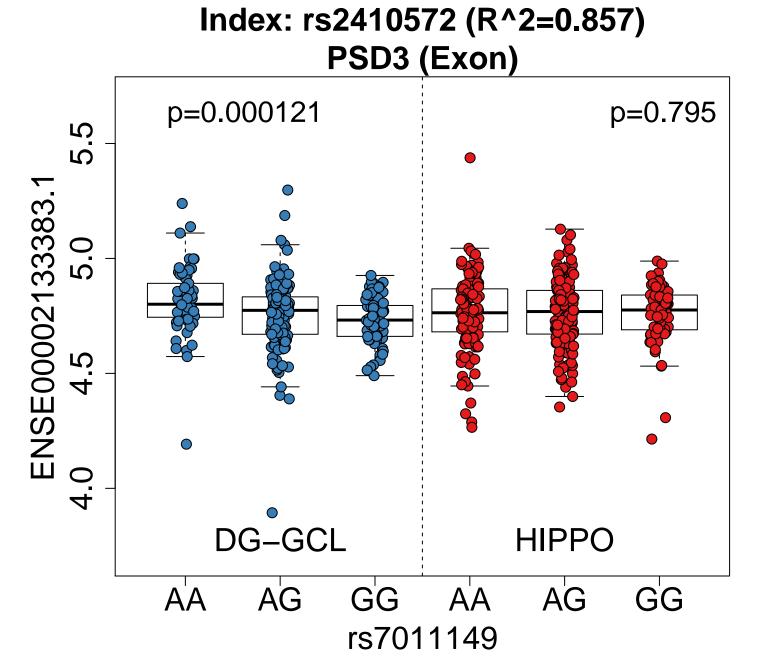
Index: rs35736453 (R^2=1) **THEMIS (Gene)** 5 p=0.000118 p=0.364ENSG00000172673.10 0.5 **HIPPO** GG ΑA GG Α̈́A AG rs3903663

Index: rs7010876 (R^2=0.803) MMP16 (Gene) p=0.000118 p=0.323ENSG00000156103.15 3.0 2.6 DG-GCL **HIPPO** AAΑA rs11986810



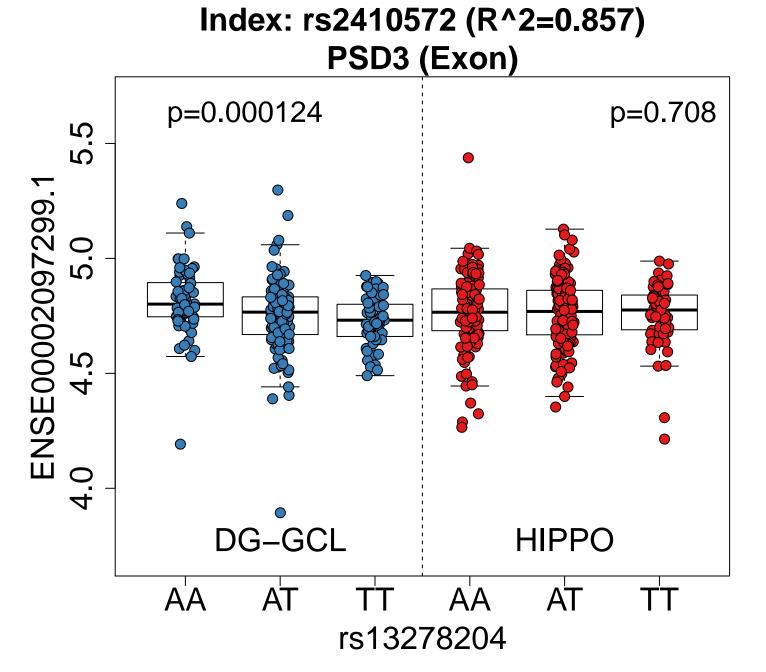


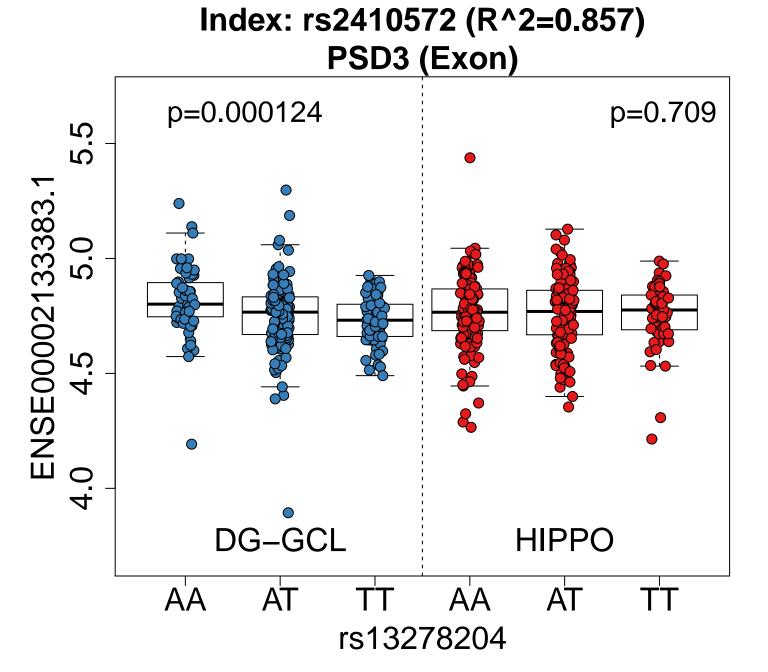


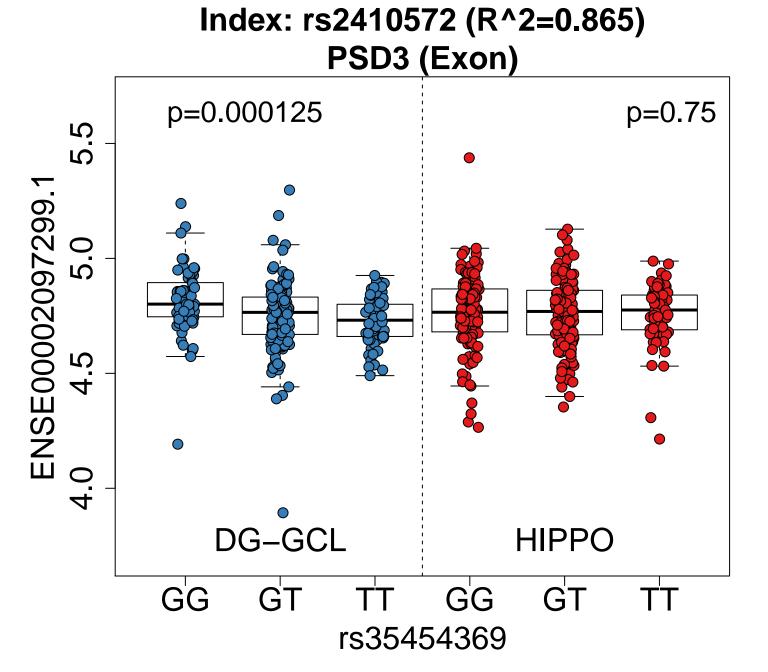


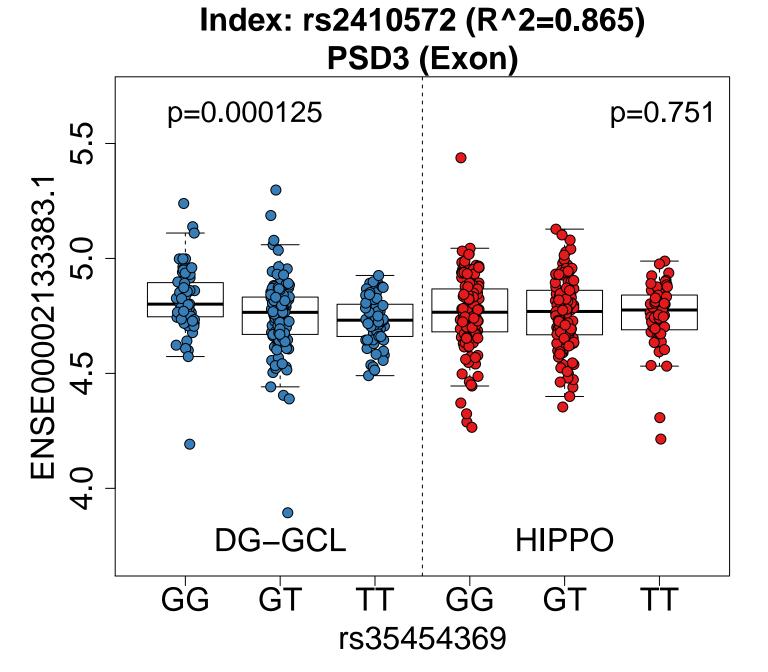
Index: rs1451488 (R^2=0.835) SATB2 (Exon) 2.0 p=0.000122 p=0.449 1.5 ENSE00000934548.1 0.5 -0.5 **HIPPO** ΑA GG ΑA AG GG rs6713045

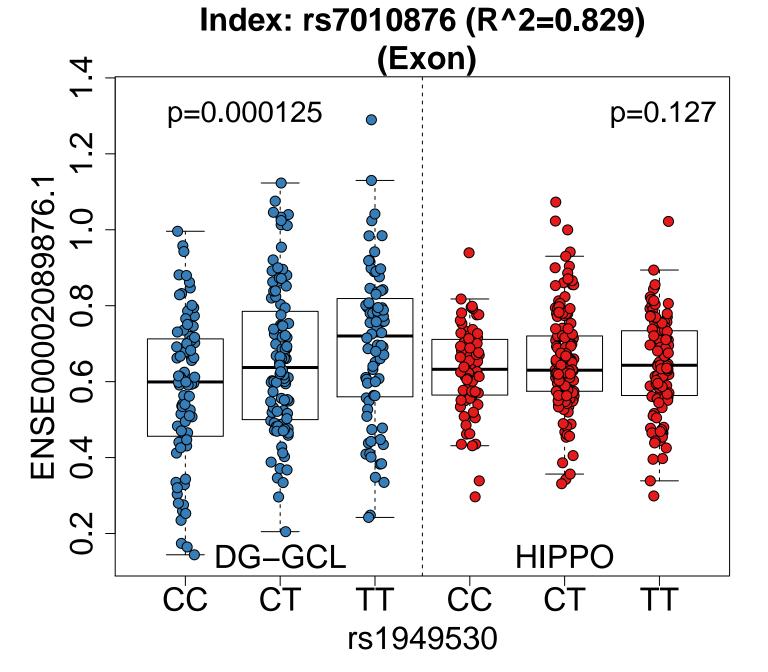
Index: rs1451488 (R^2=0.876) SATB2 (Exon) 2.0 p=0.000122 p=0.4561.5 ENSE00000934548.1 0.5 -0.5 DG-GCL **HIPPO** GG GG GA AA rs4144848

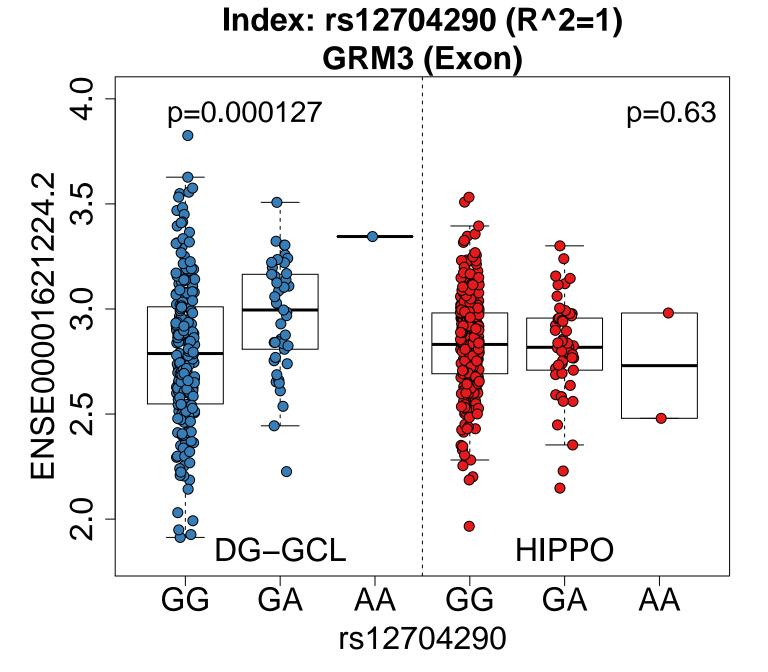






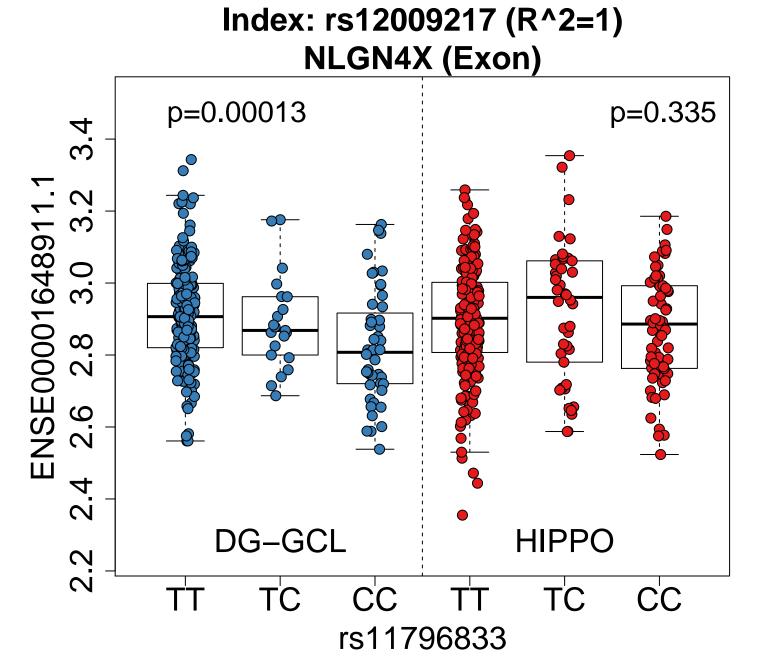




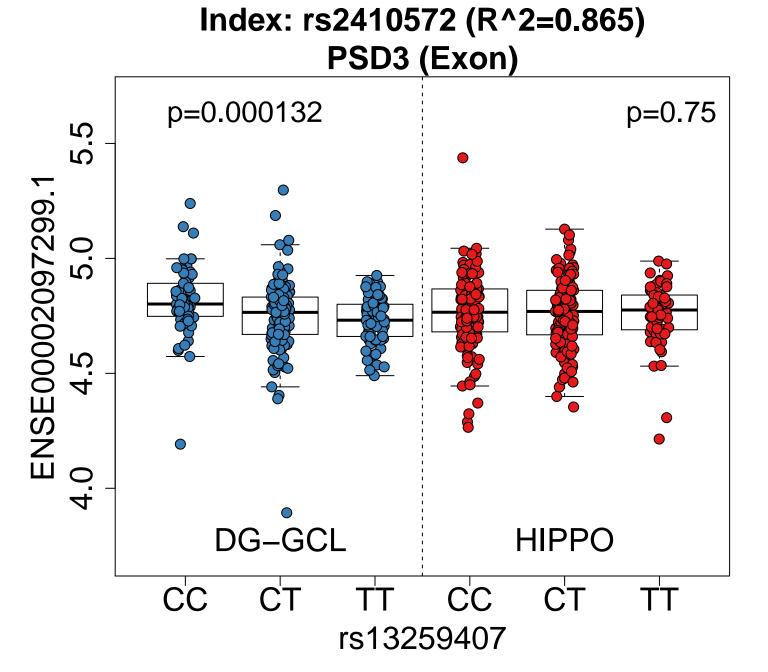


Index: rs12009217 (R^2=0.958) **NLGN4X (Exon)** p=0.000128 p=0.9133.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 GG ΑΑ AG GG ΑA AG rs73184618

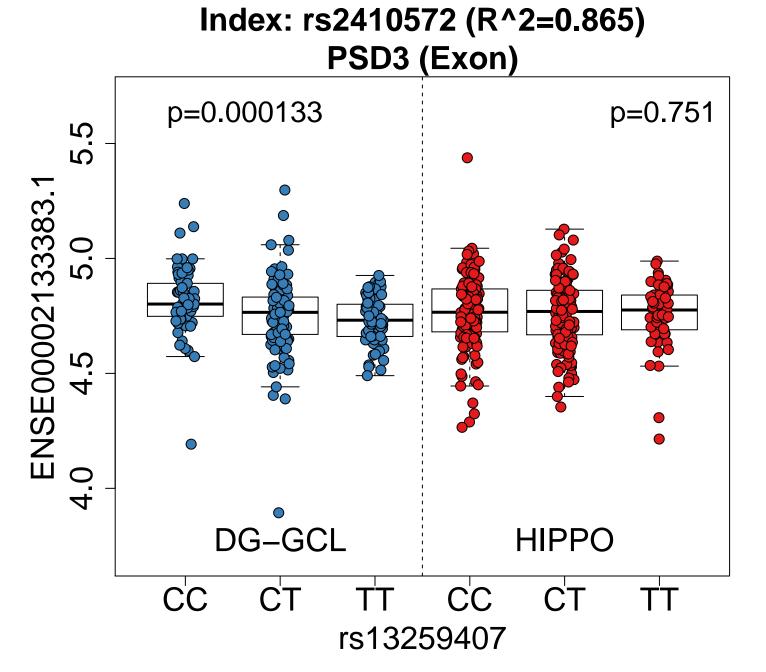
Index: rs12009217 (R^2=0.941) **NLGN4X (Exon)** p=0.000128 p=0.9133.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 AAGG GG GA ΑA GA rs7057259



Index: rs35736453 (R^2=1) **THEMIS (Gene)** 1.5 p=0.000131 p=0.334ENSG00000172673.10 .0 0.5 1.0 DG-6CL **HIPPO** ATA[']ATA **ATAAT**ATAAT AA rs76261022



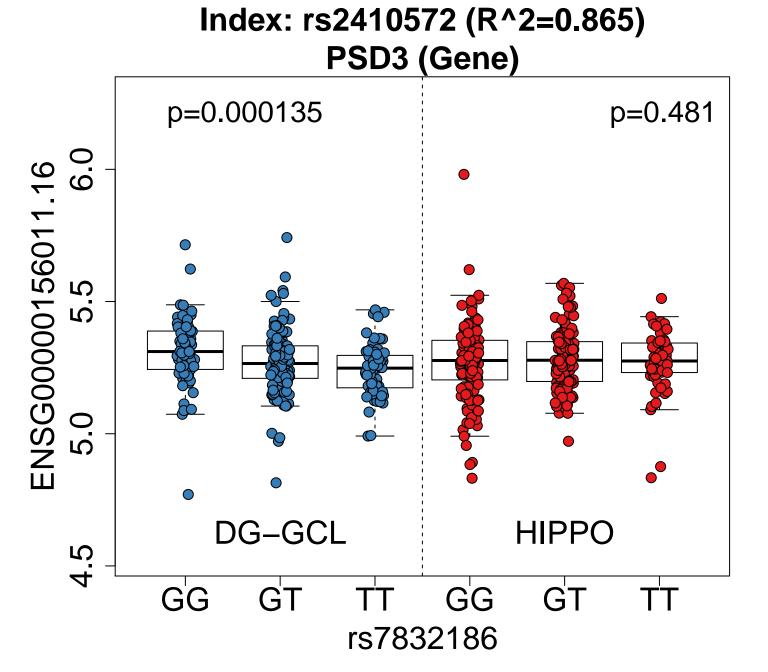
Index: rs2410572 (R^2=0.832) PSD3 (Gene) p=0.000133p=0.896ENSG00000156011.16 5.5 DG-GCL **HIPPO** 4.5 CTTC CC CTTCTT CC rs35817952



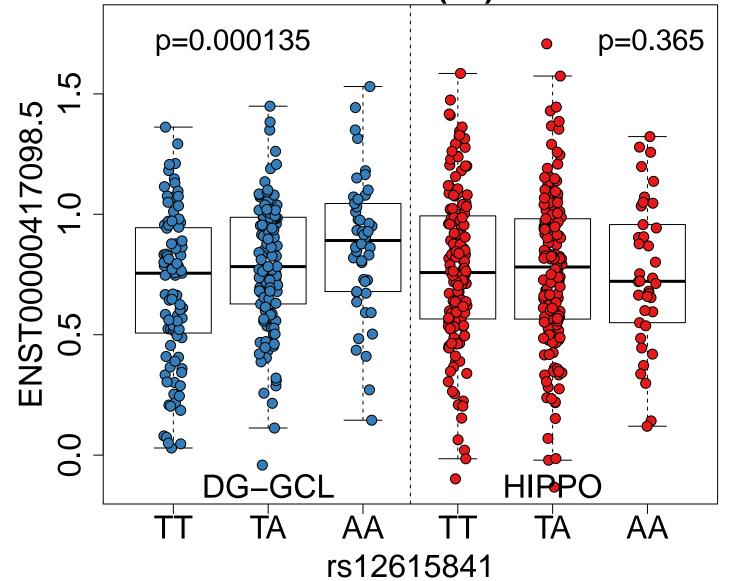
Index: rs12009217 (R^2=0.949) **NLGN4X (Exon)** p=0.000133 p=0.8023.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 CG CC CC GG CG GG rs12838497

Index: rs1451488 (R^2=0.814) SATB2 (Tx) p=0.000133 p=0.5445 0.5 HIPPO <u>DG-G</u>CL C_C CĊA C_C rs142905544

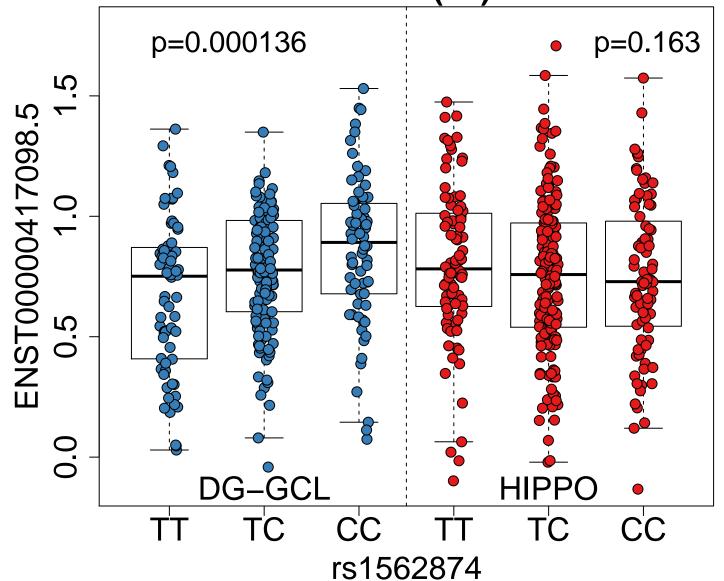
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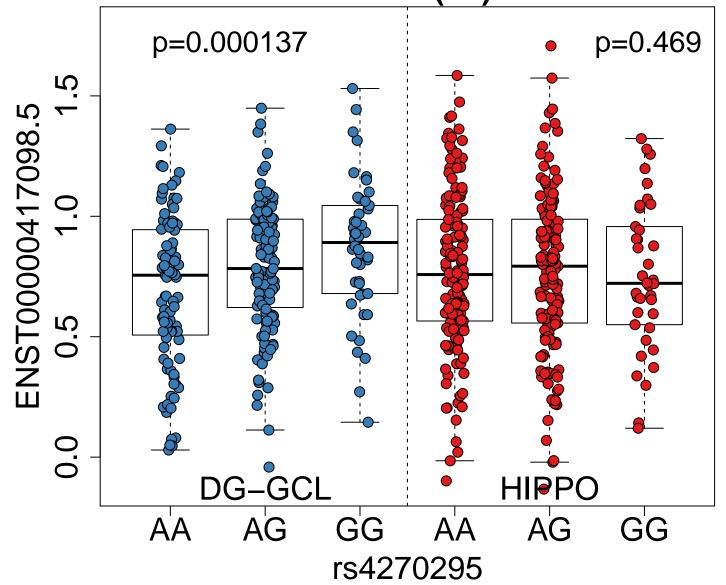
Index: rs1451488 (R^2=0.907) SATB2 (Tx)



Index: rs1451488 (R^2=0.873) SATB2 (Tx)

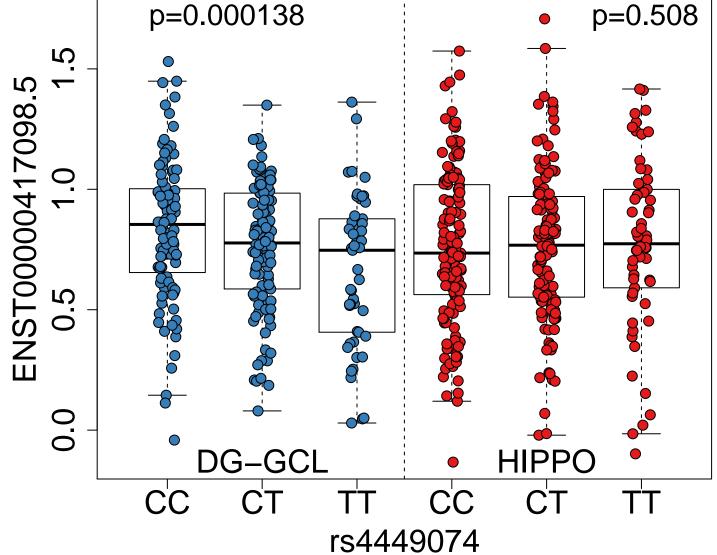


Index: rs1451488 (R^2=0.907) SATB2 (Tx)

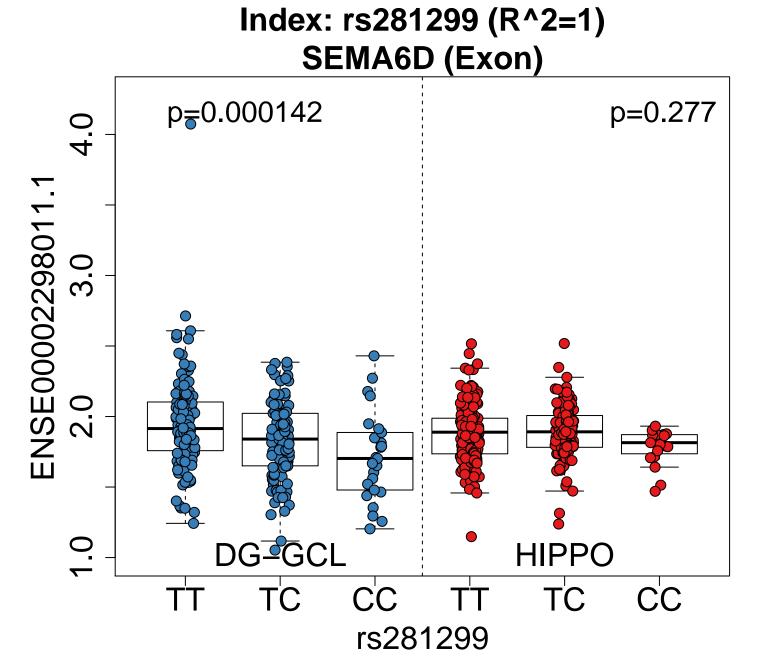


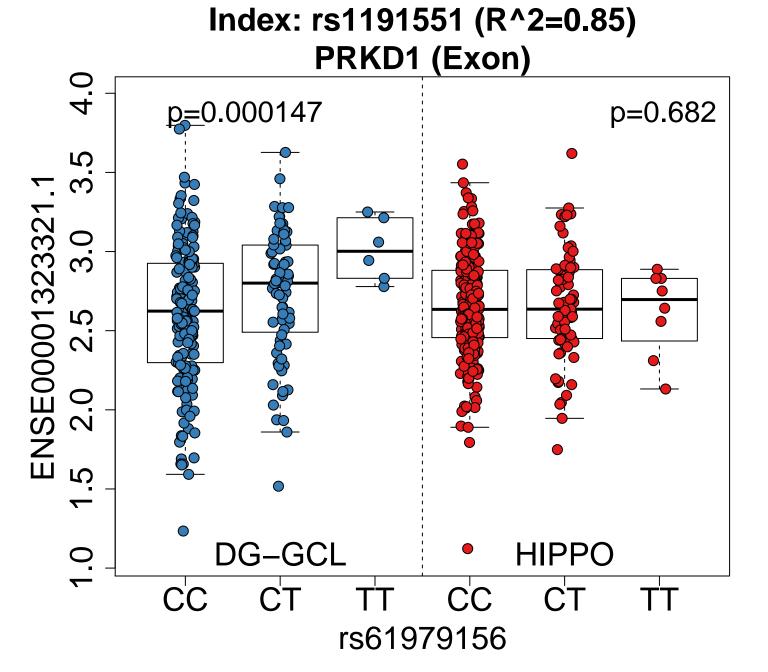
Index: rs4936277 (R^2=0.932) TMPRSS5 (Exon) p=0.000138 p=0.6843.0 ENSE00002207903.1 DG-GCL • **HIPPO** CC CC CA AAAA rs61687445

Index: rs1451488 (R^2=0.81) SATB2 (Tx) p=0.508



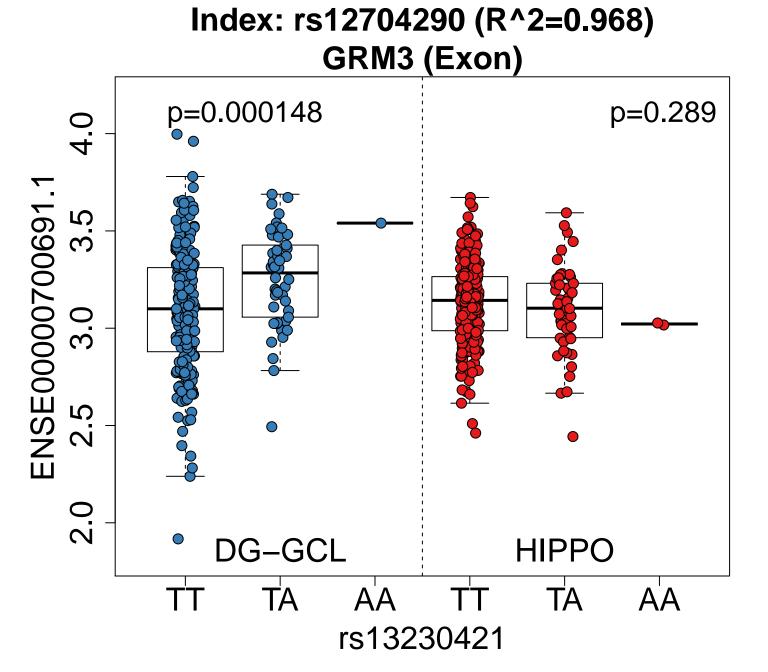
Index: rs12009217 (R^2=0.824) **NLGN4X (Exon)** p=0.00014p=0.7723.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 CC CC TC TC rs5961915



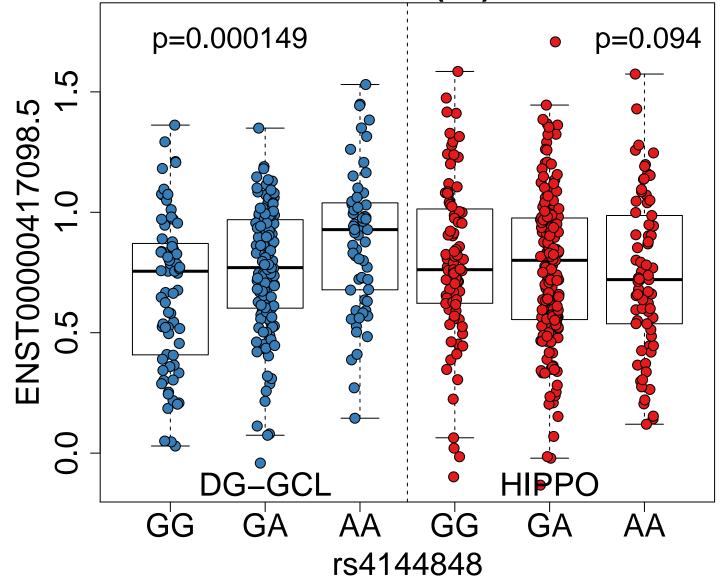


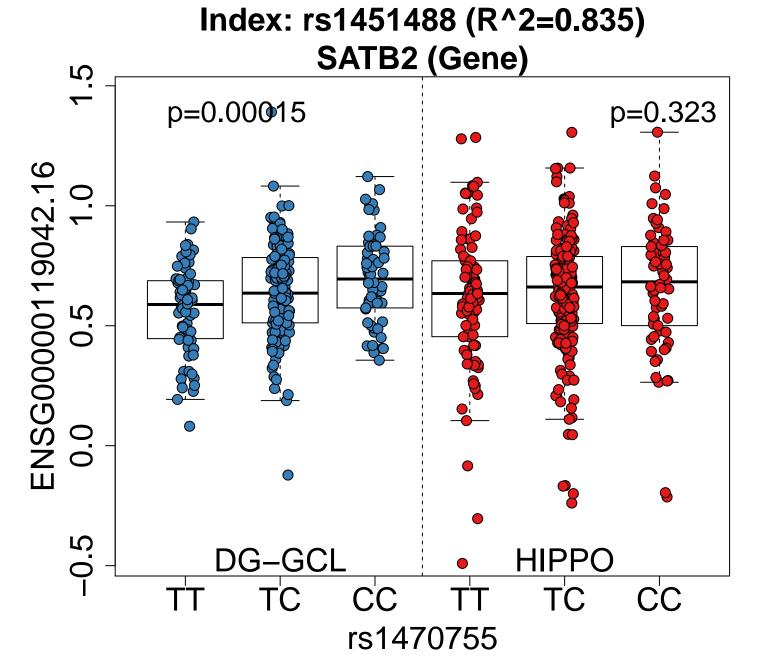
Index: rs7010876 (R^2=1) MMP16 (Exon) p=0.000147 p=0.2243.5 ENSE00003694472.1 2.5 HIPPO DG-GCL AA ΑT Α̈́A ΑT rs7010876

Index: rs2410572 (R^2=0.857) PSD3 (Gene) p=0.000147 p=0.515ENSG00000156011.16 5.5 08 DG-GCL **HIPPO** 4.5 AAGG GA GG GA AA rs7831488

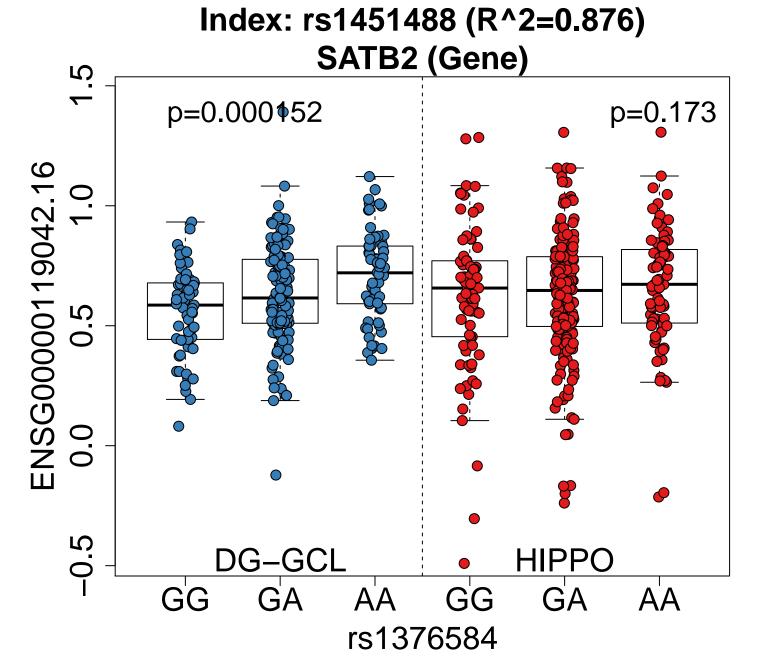


Index: rs1451488 (R^2=0.876) SATB2 (Tx)





Index: rs1451488 (R^2=0.81) SATB2 (Tx) p=0.00015 p=0.4755 ENST00000417098.5 0.5 DG-GCL **HIPPO** CC CC rs62178742



Index: rs11993663 (R^2=0.935) **TNKS (Exon)** 5.5 p=0.000153 p=0.942ENSE00003580266.1 4.0 4.5 5.0 DG-GCL **HIPPO** GG GG **G**T rs11787370

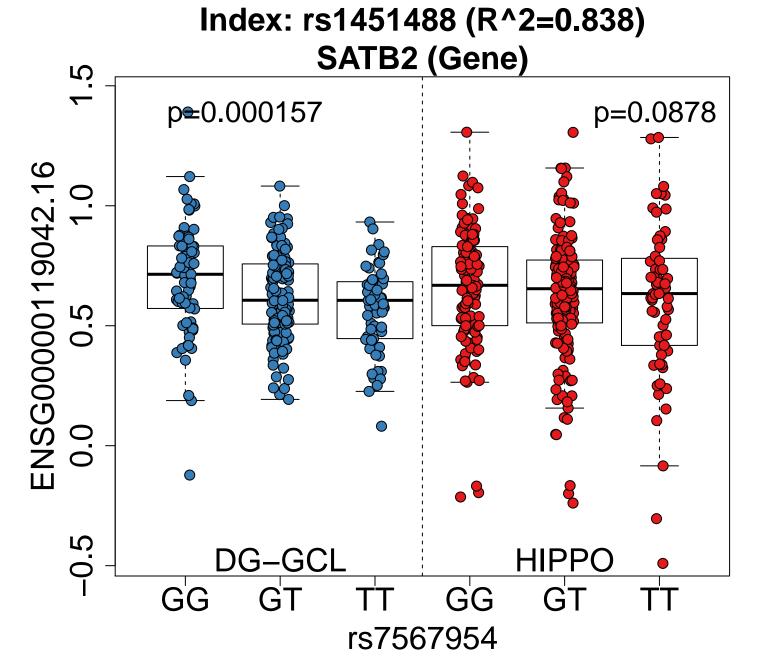
Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=0.000154 p=0.8433.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 ΑΑ Α̈́A rs12841190

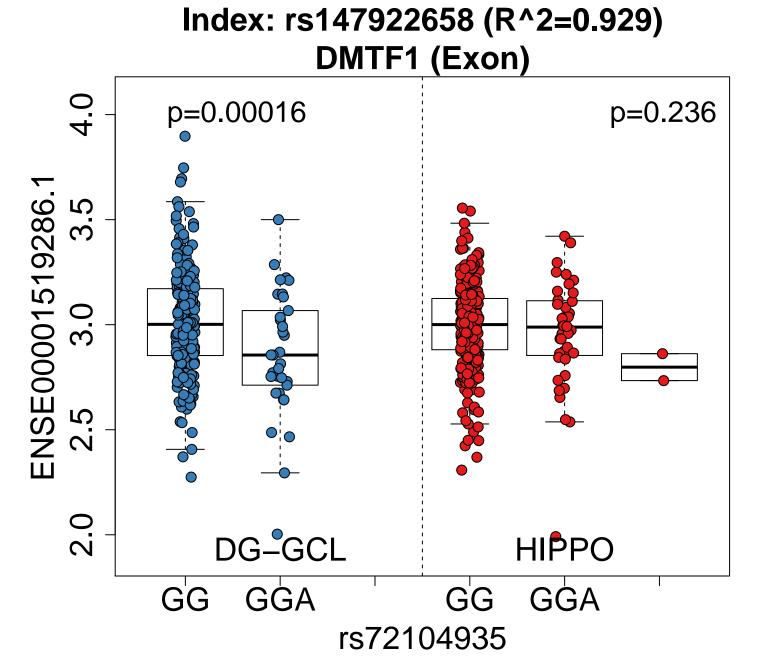
Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=0.000154 p=0.8433.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 GG GA ΑA GG GA rs12013227

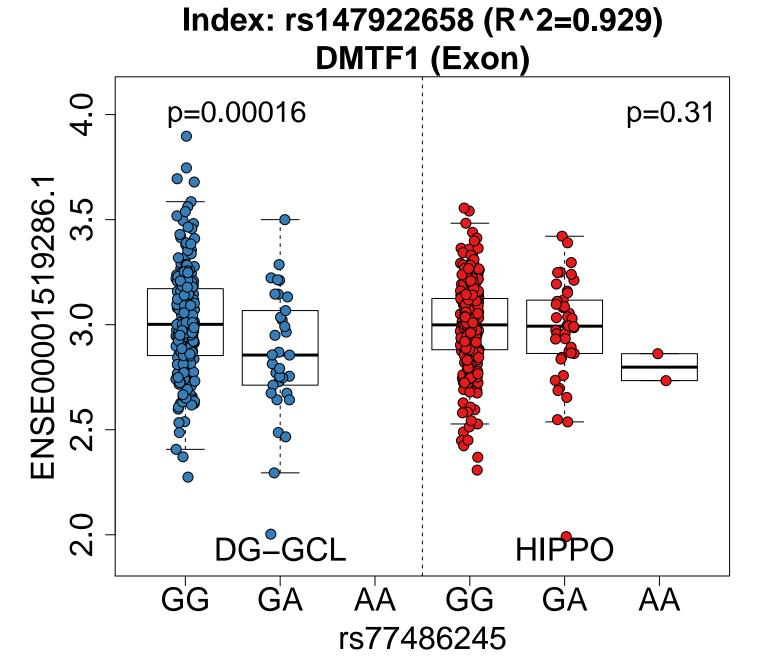
Index: rs12009217 (R^2=0.991) **NLGN4X (Exon)** p=0.000154 p=0.8543.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 GG GA GG GA AA rs12835456

Index: rs12009217 (R^2=0.983) **NLGN4X (Exon)** p=0.000154 p=0.8543.4 ENSE00001648911.1 2.6 2.8 3.0 3.2 DG-GCL **HIPPO** 2.2 CC CC CA ΑA CA rs12861223

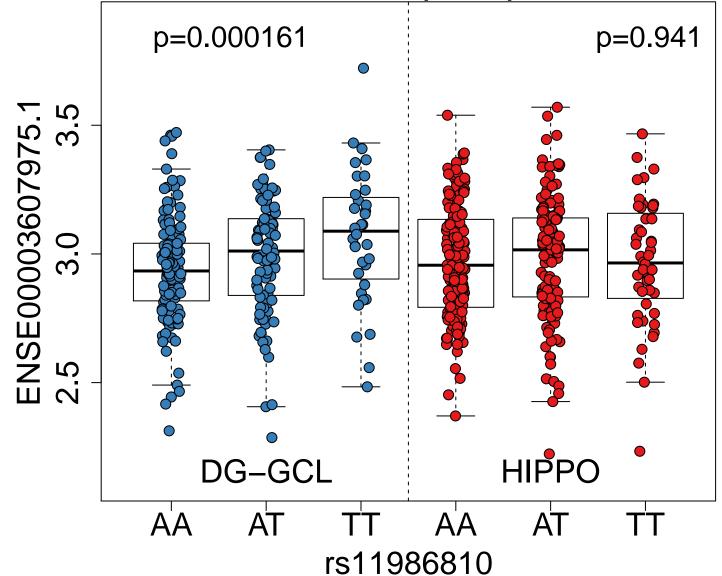
Index: rs4936277 (R^2=0.816) TMPRSS5 (Exon) p=0.000157 p=0.822ENSE00002207903.1 DG-GCL **HIPPO** ΑĠ ΑA GG Α̈́A AG GG rs7125588





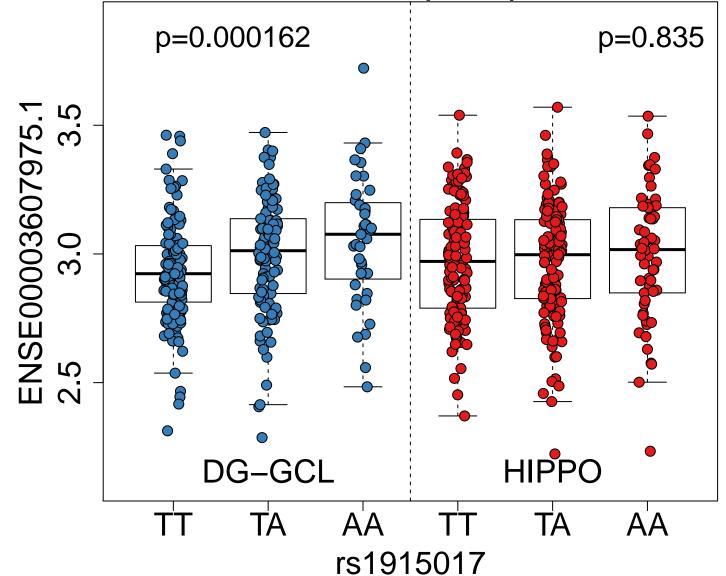


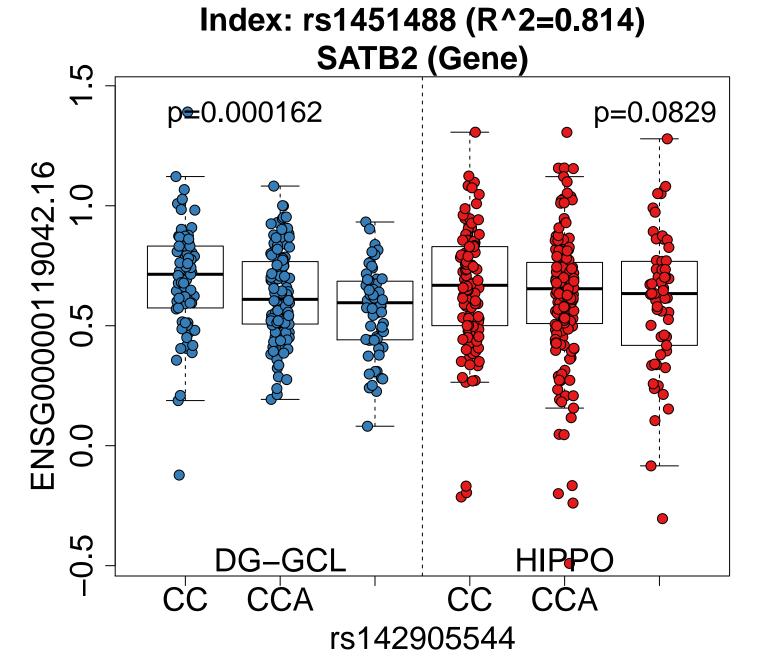
Index: rs7010876 (R^2=0.803) MMP16 (Exon)



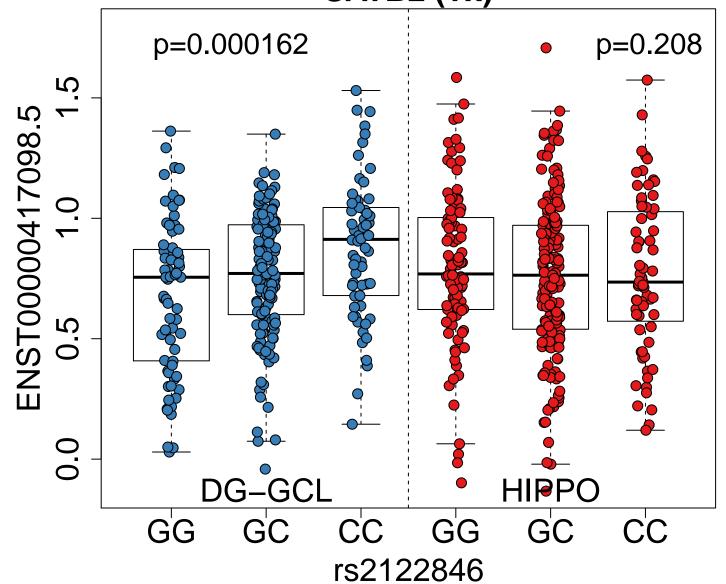
Index: rs4936215 (R^2=0.802) IGSF9B (Exon) p20.000161 p=0.231ENSE00001559691.1 0.5 -0.5 <u>DG[®]GCL</u> GG GG AA GA rs73036064

Index: rs7010876 (R^2=0.843) MMP16 (Exon)

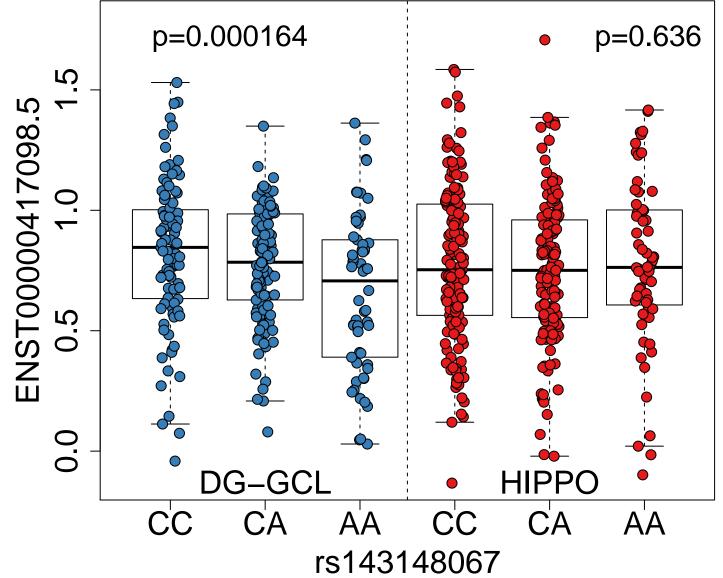


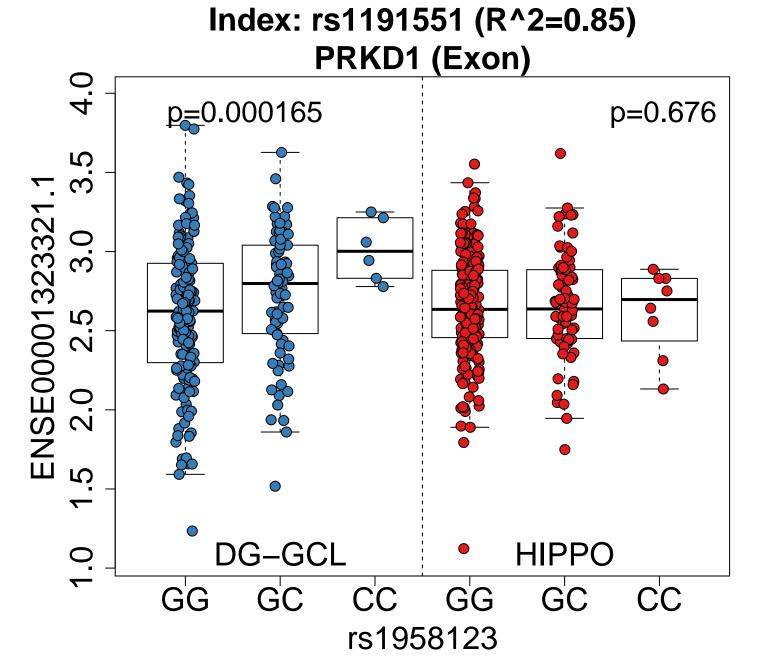


Index: rs1451488 (R^2=0.868) SATB2 (Tx)

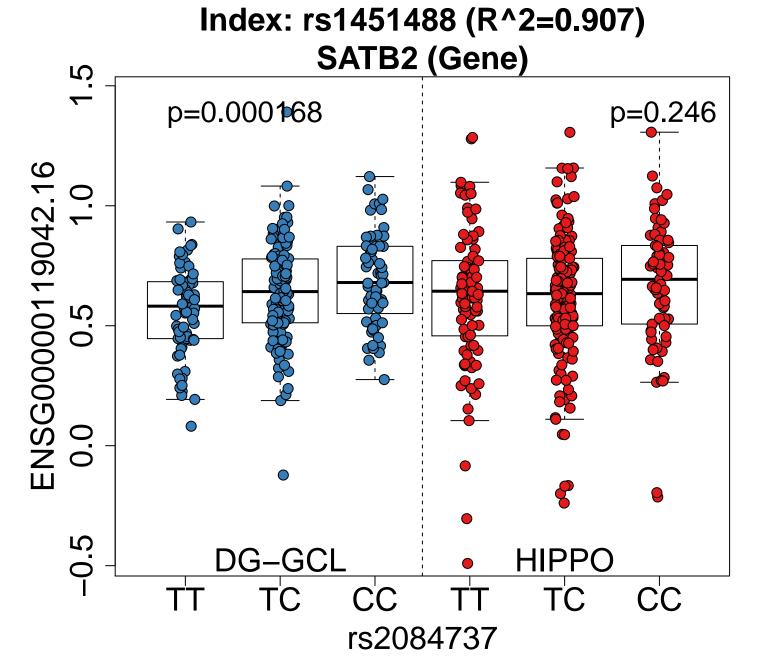


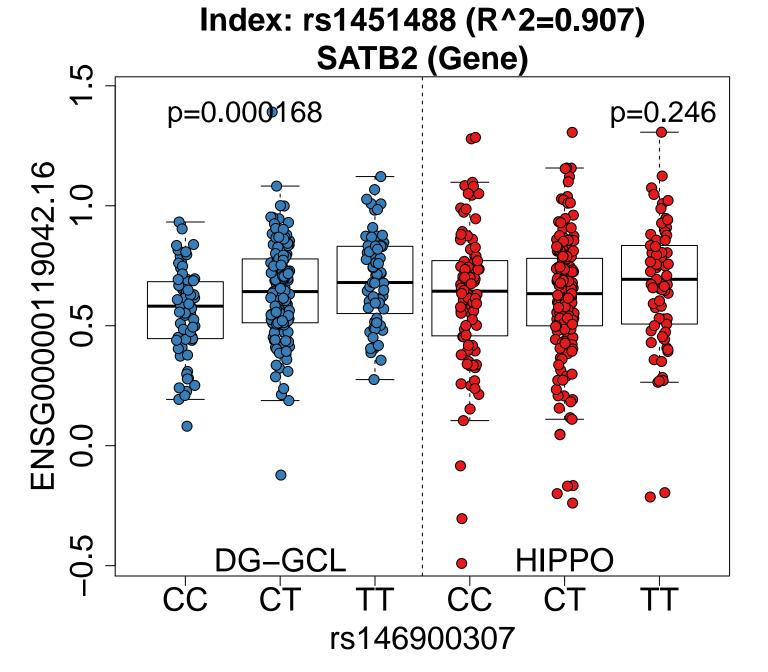
Index: rs1451488 (R^2=0.911) SATB2 (Tx)



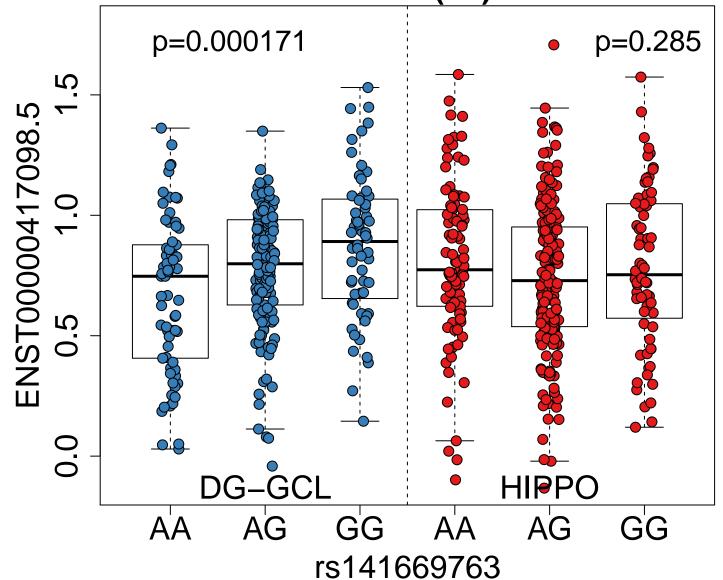


Index: rs62334820 (R^2=0.945) **GPM6A (Exon)** 6.5 p=0.00641p=0.000167 ENSE00001516177.2 5.0 5.5 6.0 4.5 DG-GCL **HIPPO** CTTC CC CTTCTT CC rs142411634



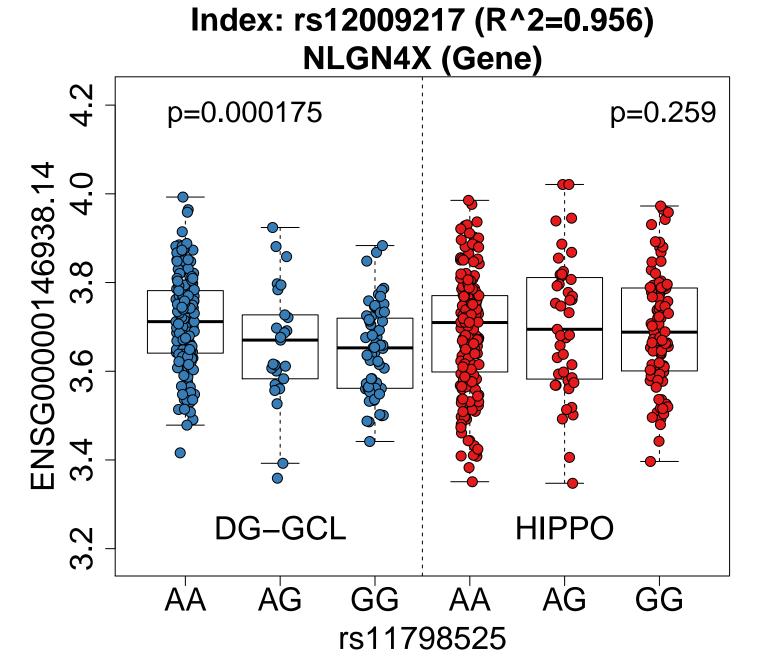


Index: rs1451488 (R^2=0.903) SATB2 (Tx)

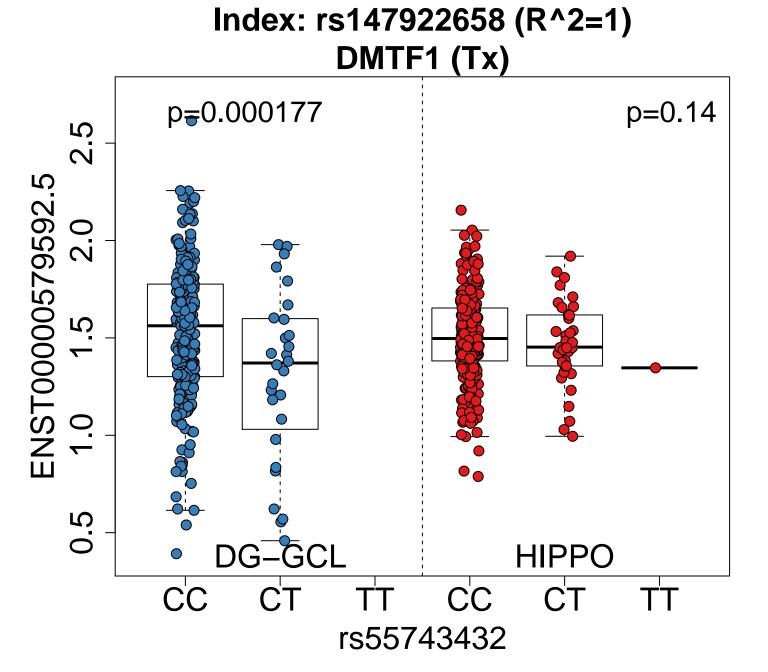


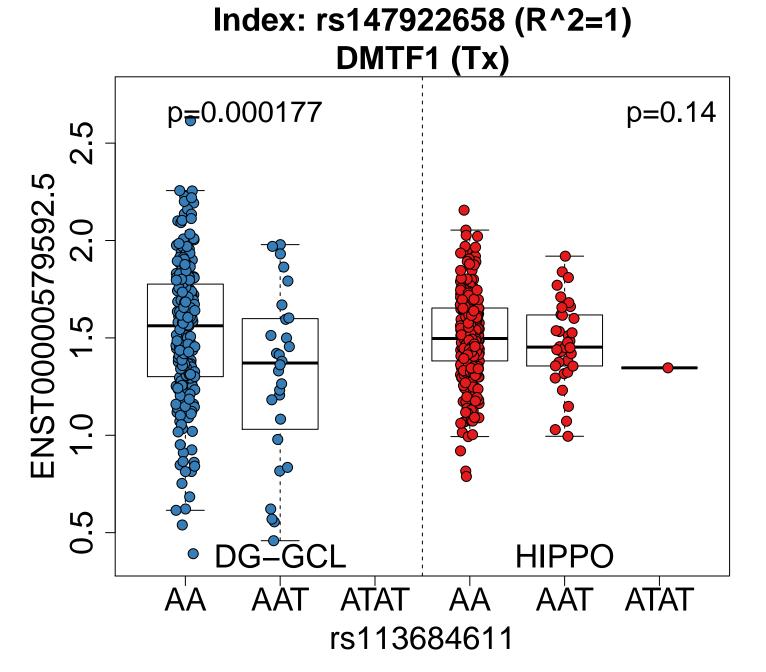
Index: rs35736453 (R^2=0.938) **THEMIS (Gene)** 5 p=0.000172 p=0.474ENSG00000172673.10 .0 0.5 1.0 **HIPPO** CC rs9388610

Index: rs35736453 (R^2=0.934) **THEMIS (Gene)** 5 p=0.000172 p=0.474ENSG00000172673.10 .0 0.5 1.0 DG-GCL **HIPPO** CC rs9402011

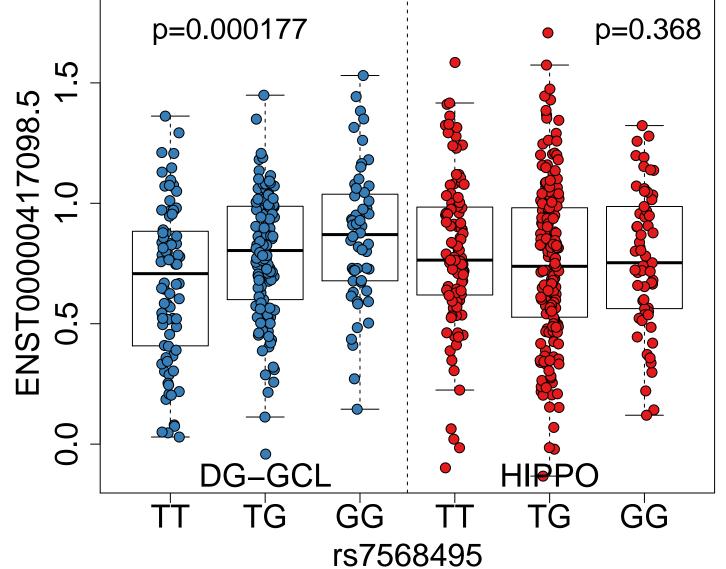


Index: rs11993663 (R^2=0.926) **TNKS (Exon)** 5.5 p=0.000176 p=0.837ENSE00003580266.1 4.0 4.5 5.0 DG-GCL **HIPPO** GG AG AΑ GG Α̈́A AG rs12548428



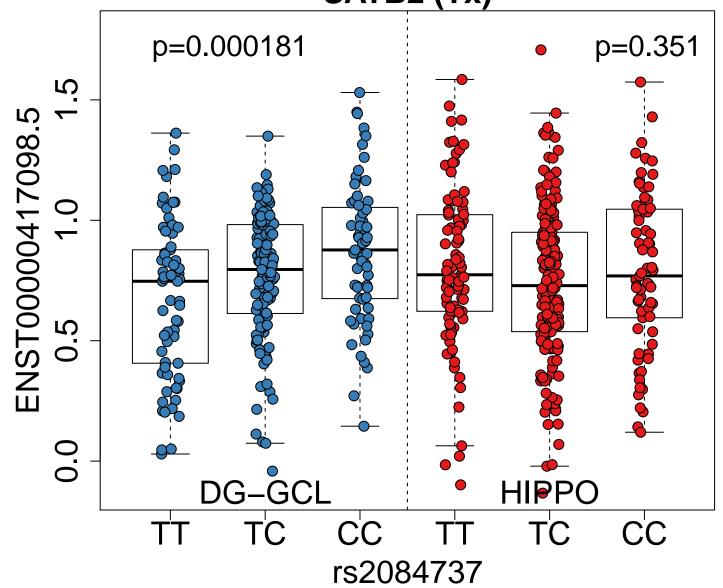


Index: rs1451488 (R^2=0.911) SATB2 (Tx)

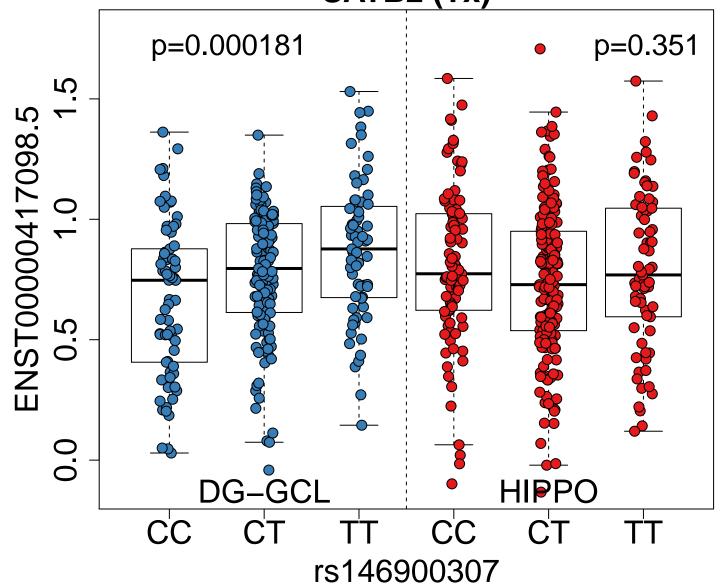


Index: rs1191551 (R^2=0.85) PRKD1 (Exon) 3.0 p=0.000178p=0.759ENSE00001921285.1 1.5 2.0 2.5 0-888-0 DG-GCL **HIPPO** CC rs61979156

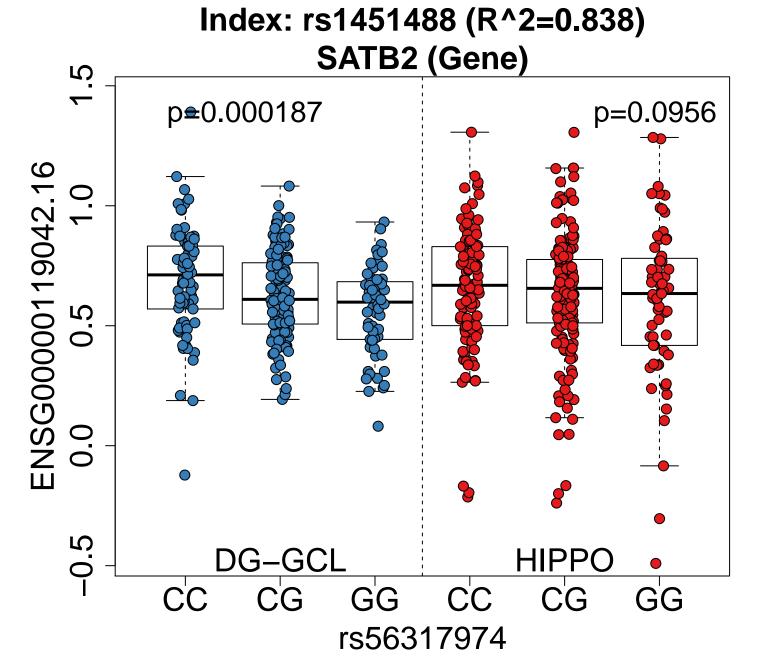
Index: rs1451488 (R^2=0.907) SATB2 (Tx)

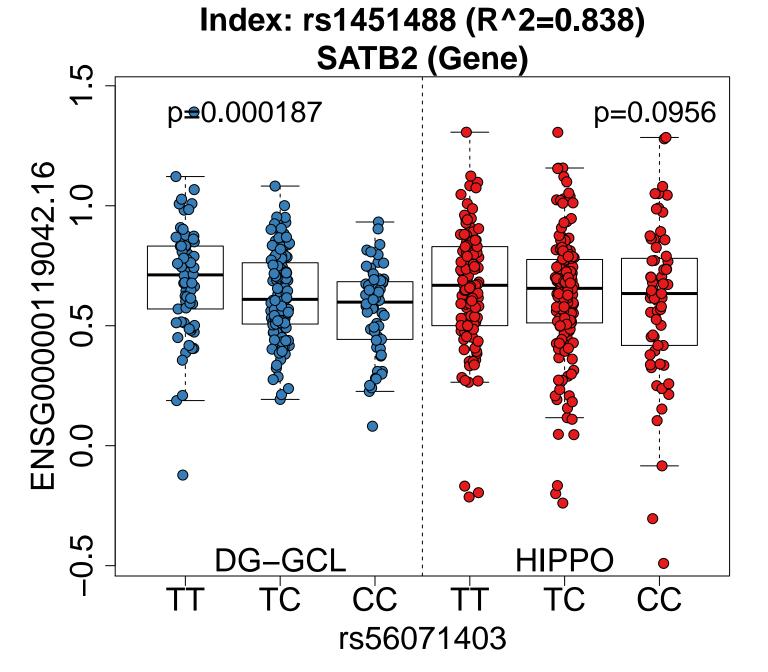


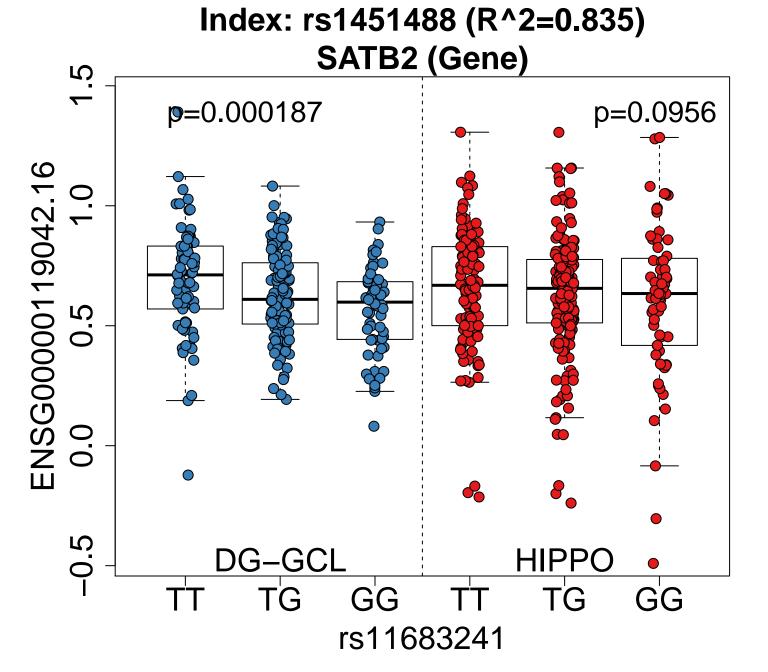
Index: rs1451488 (R^2=0.907) SATB2 (Tx)

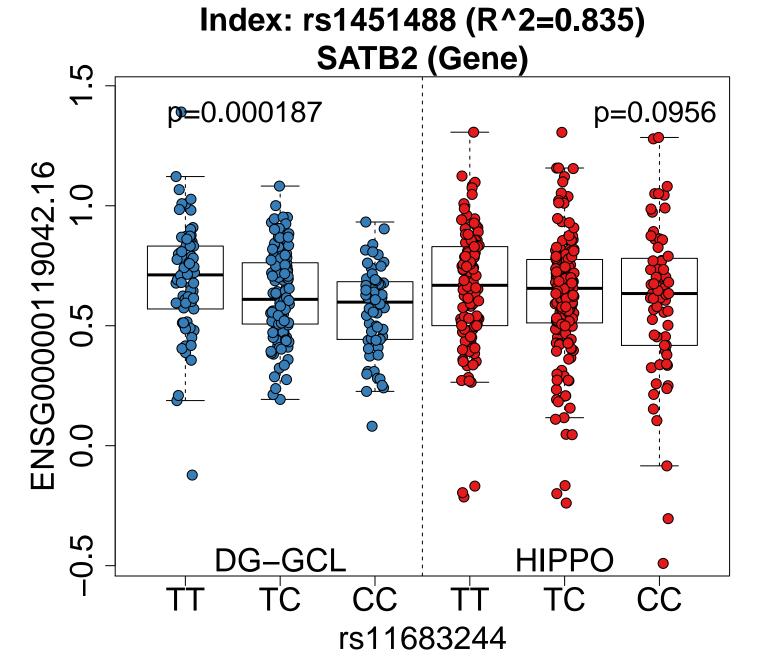


Index: rs2007044 (R^2=0.862) CACNA1C (Tx) 3.2 p=0.000187 p=0.508ENST00000399655.5 2.4 2.8 DG-GCL **HIPPO** GG GG **G**T rs2238057





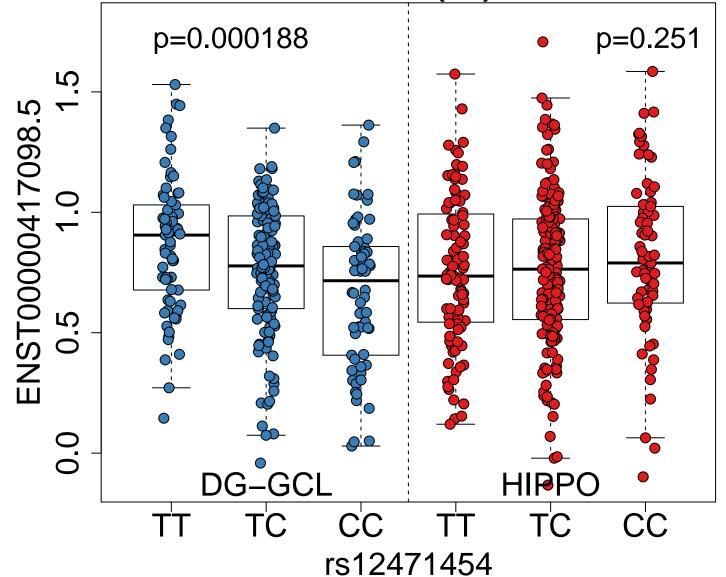




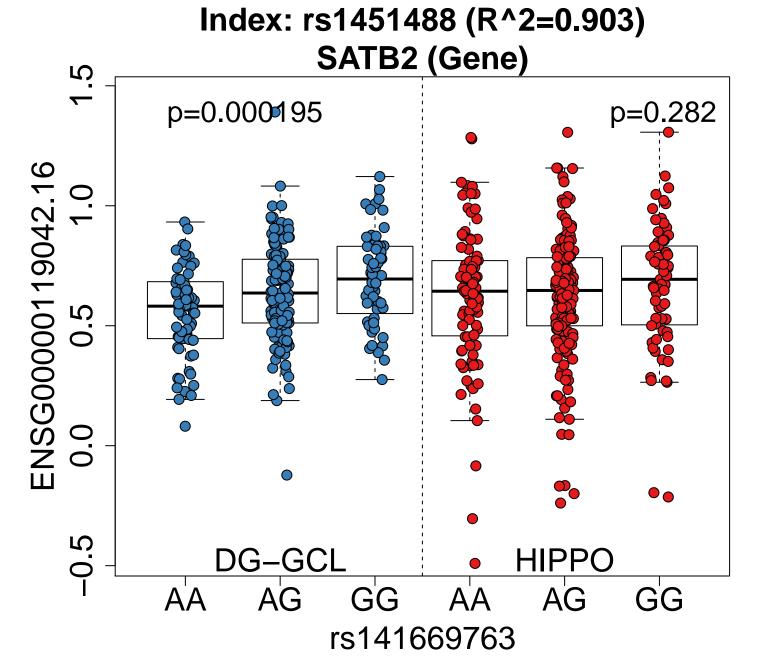
Index: rs1451488 (R^2=0.88) SATB2 (Tx) p=0.000188 p=0.2585 ENST00000417098.5 0000 0.5 DG-GCI **HIPPO** rs1349505

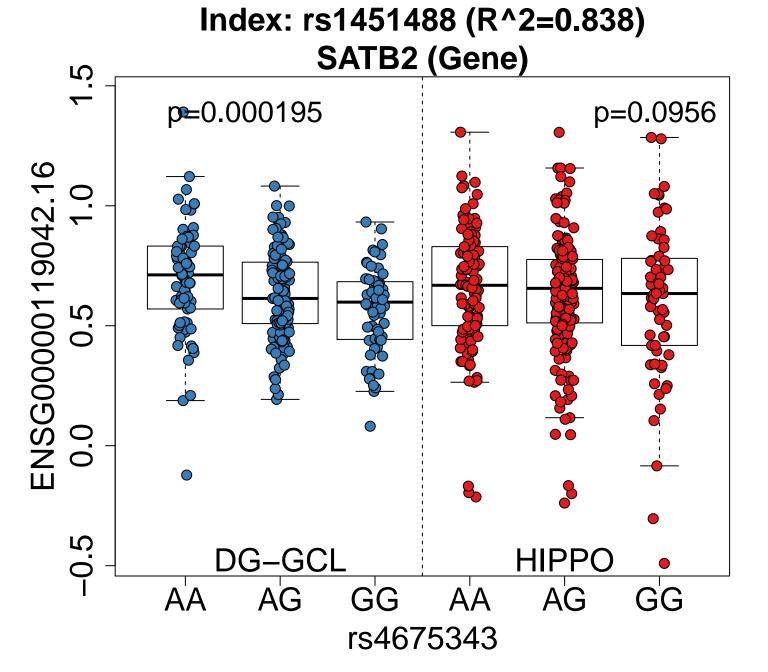
Index: rs1451488 (R^2=0.88) SATB2 (Tx) p=0.000188 p=0.2585 ENST00000417098.5 0.5 HIPPO DG[–]GCL C_C CC CA AA rs1868915

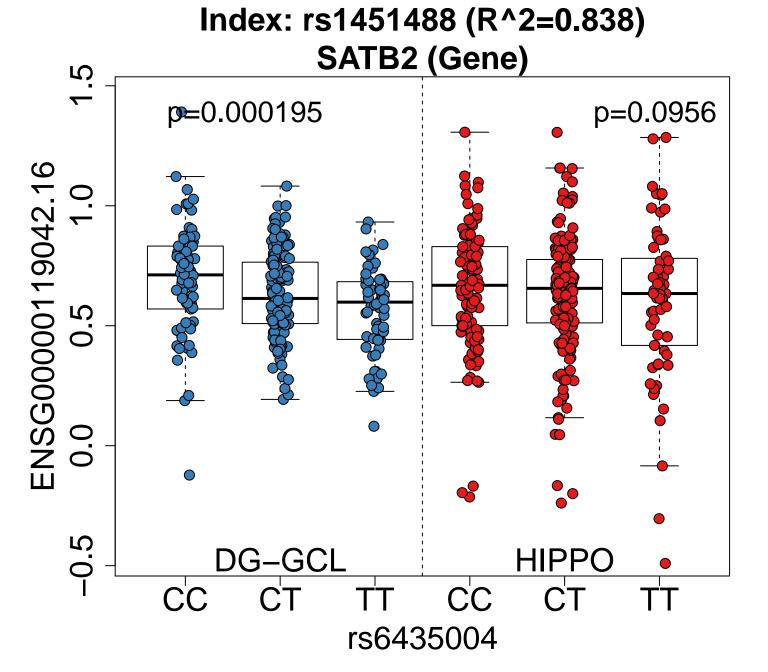
Index: rs1451488 (R^2=0.871) SATB2 (Tx)

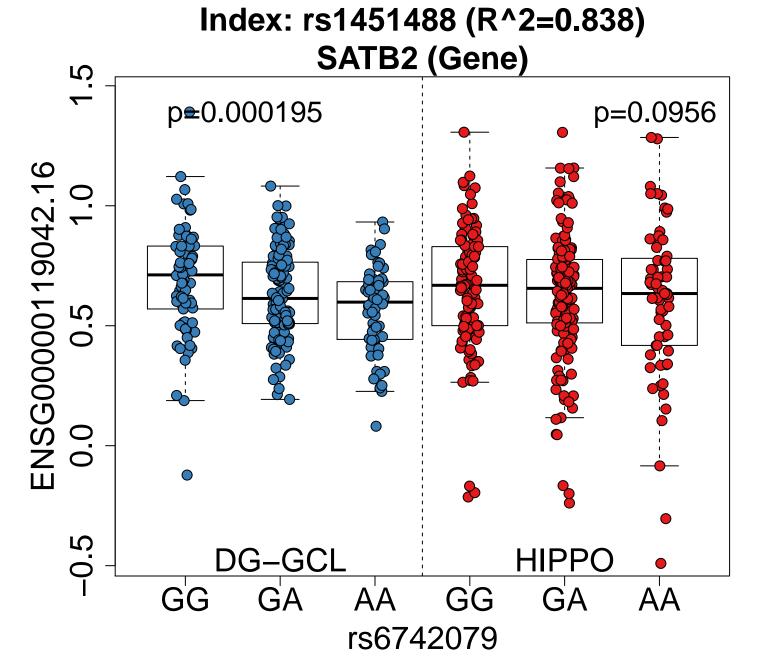


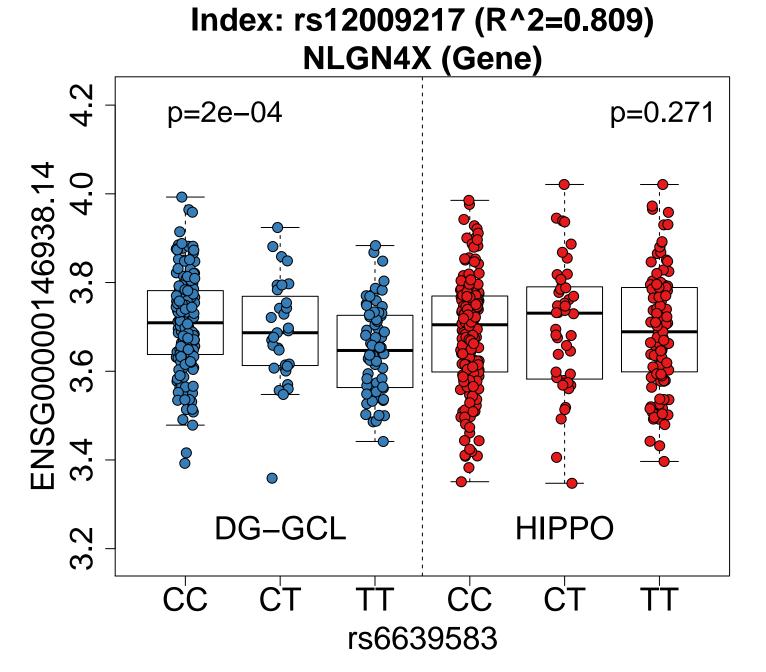
Index: rs12704290 (R^2=0.968) GRM3 (Exon) 4.5 p=0.000189 p=0.949ENSE00001667488.1 3.5 DG-GCL **HIPPO** AATA AA TA rs13230421

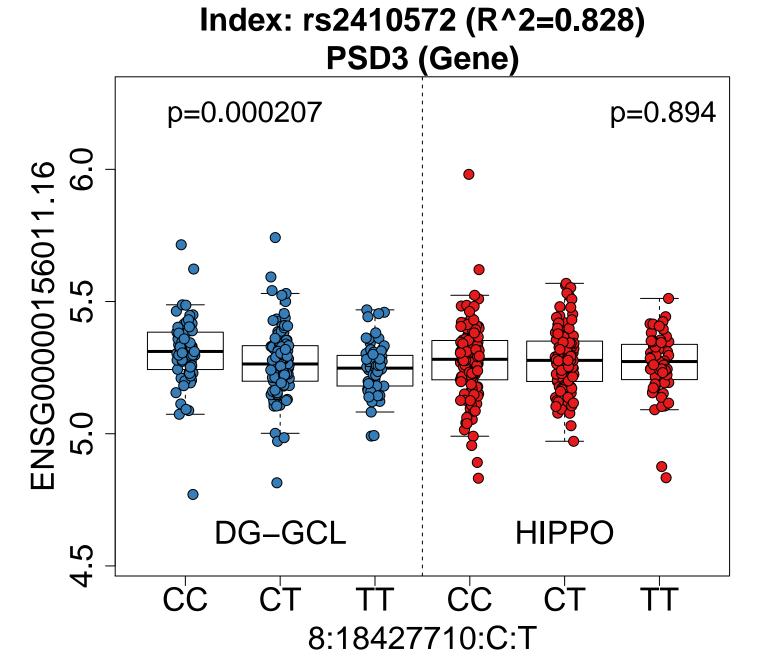


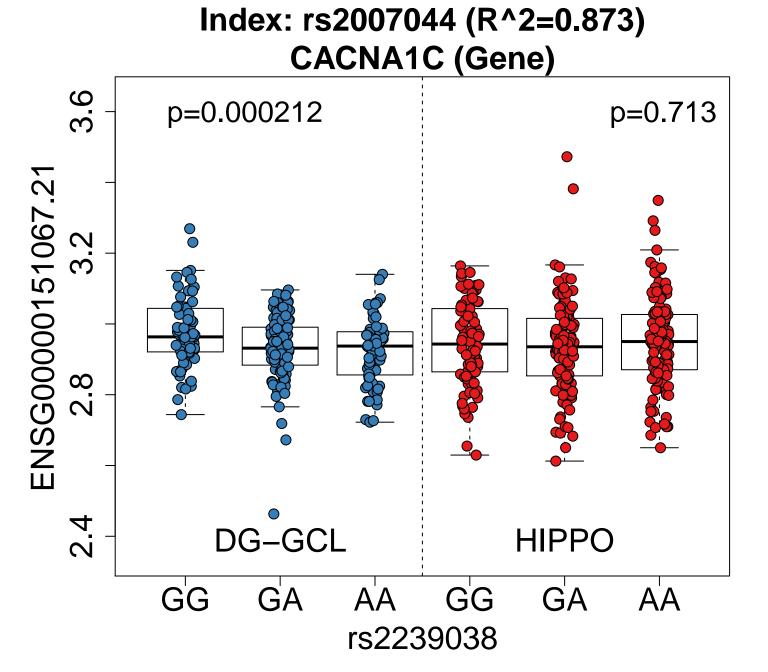


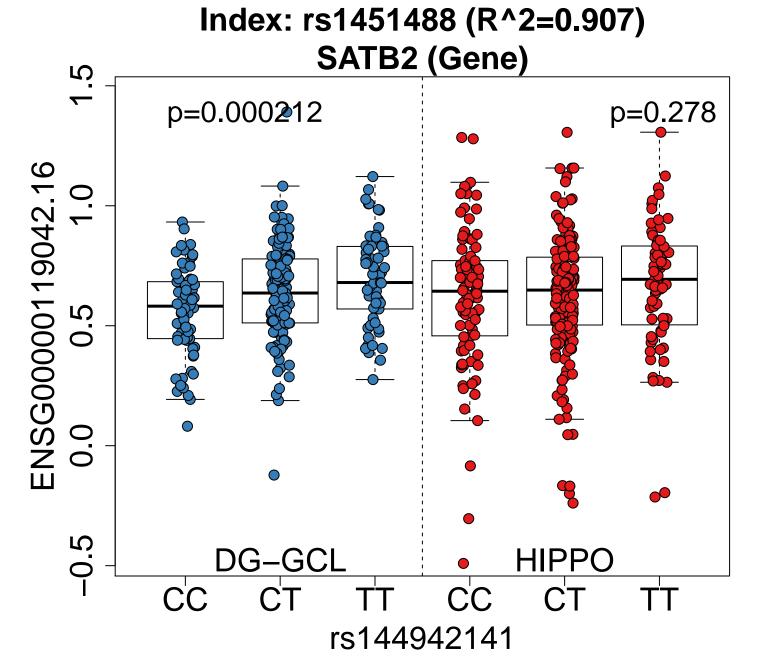


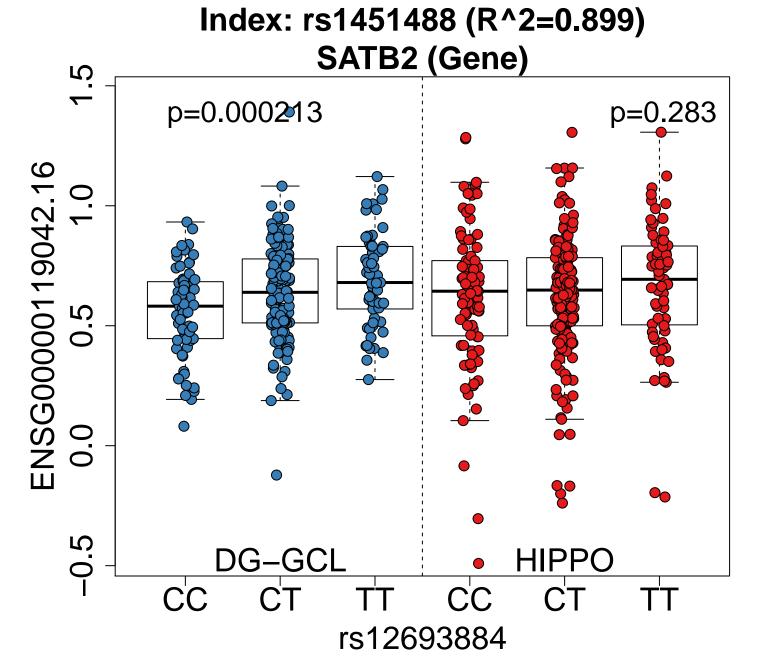


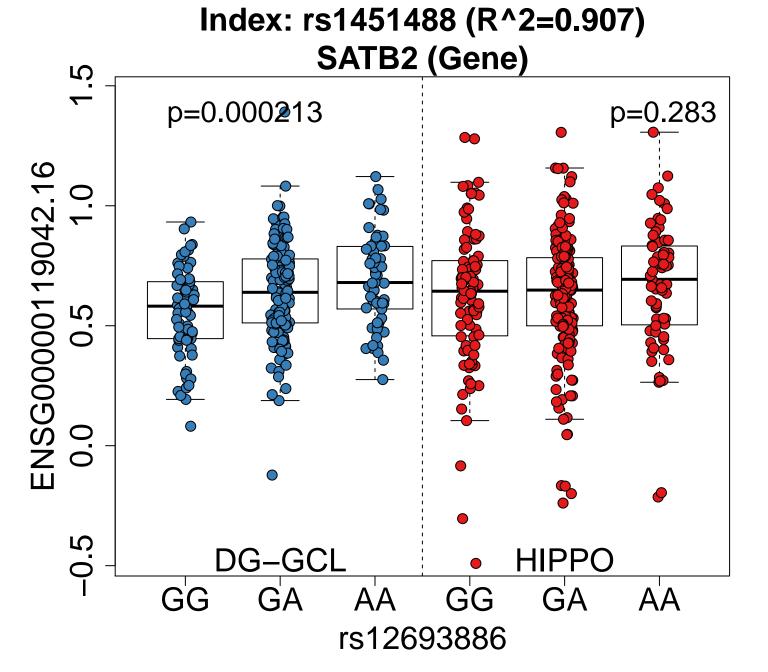


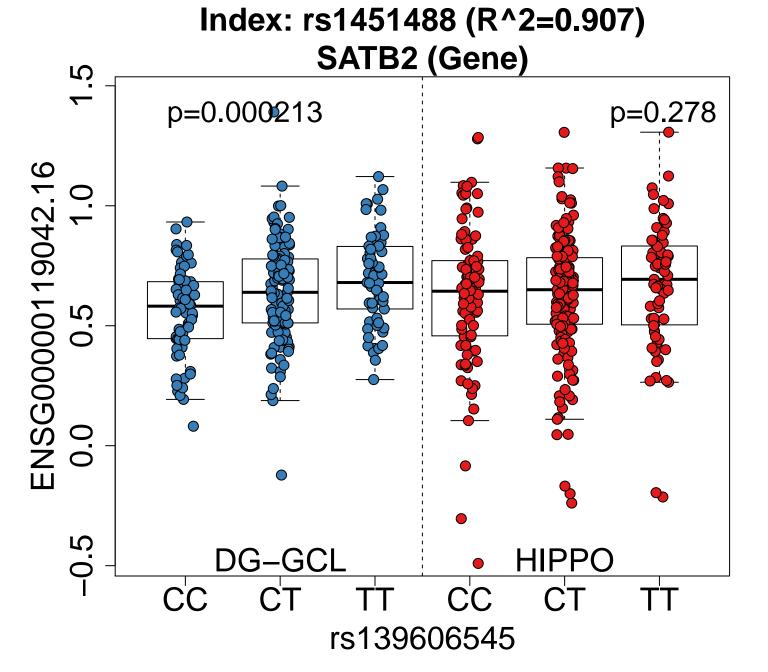


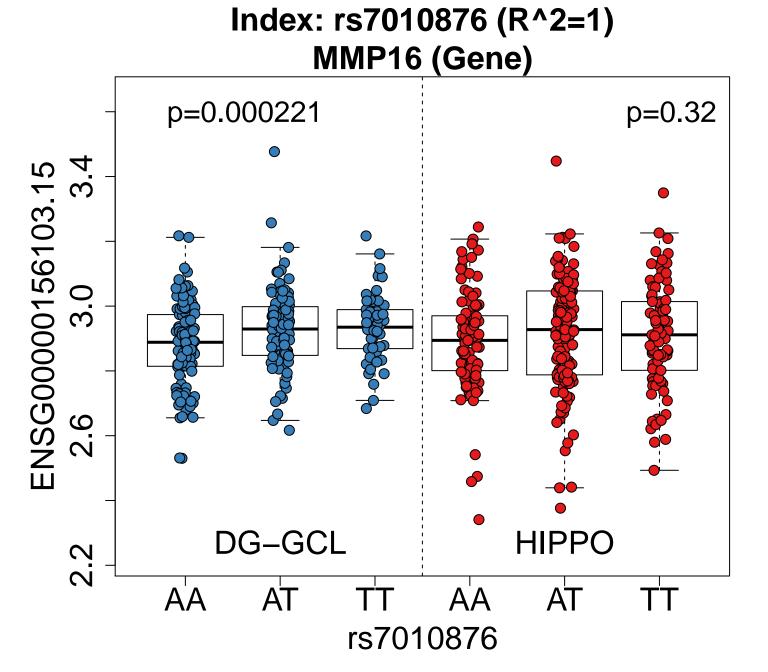




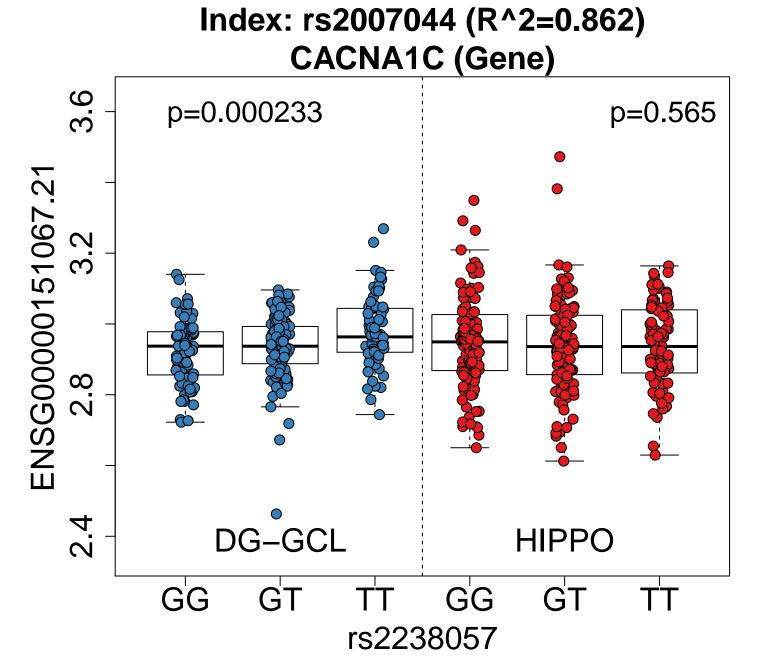


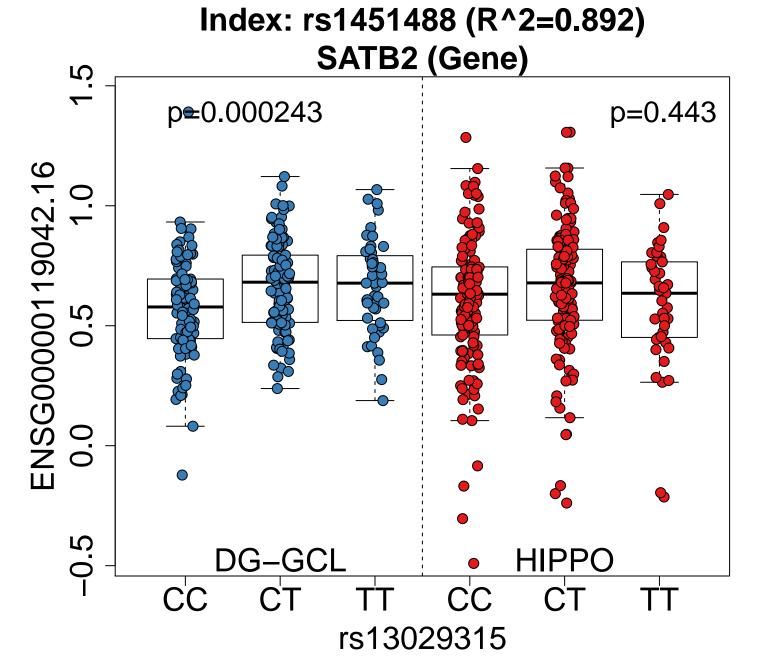


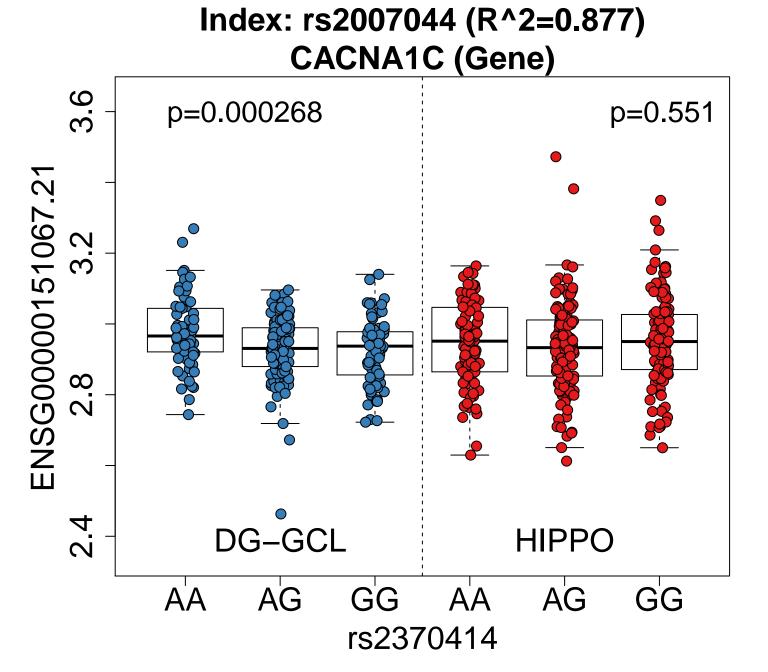




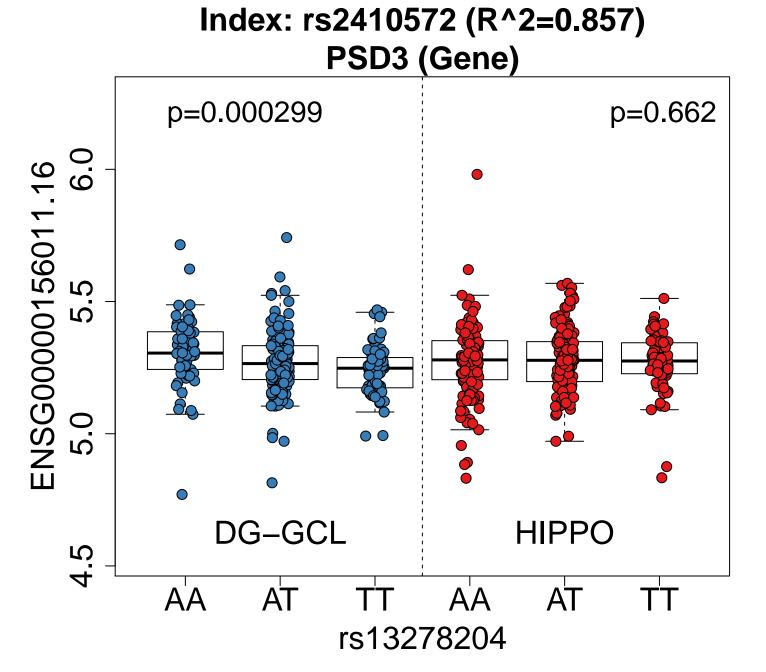
Index: rs2410572 (R^2=0.857) PSD3 (Gene) p=0.000225 p=0.602ENSG00000156011.16 5.5 DG-GCL **HIPPO** 4.5 GG AAΑĠ GG AG AA rs7011149



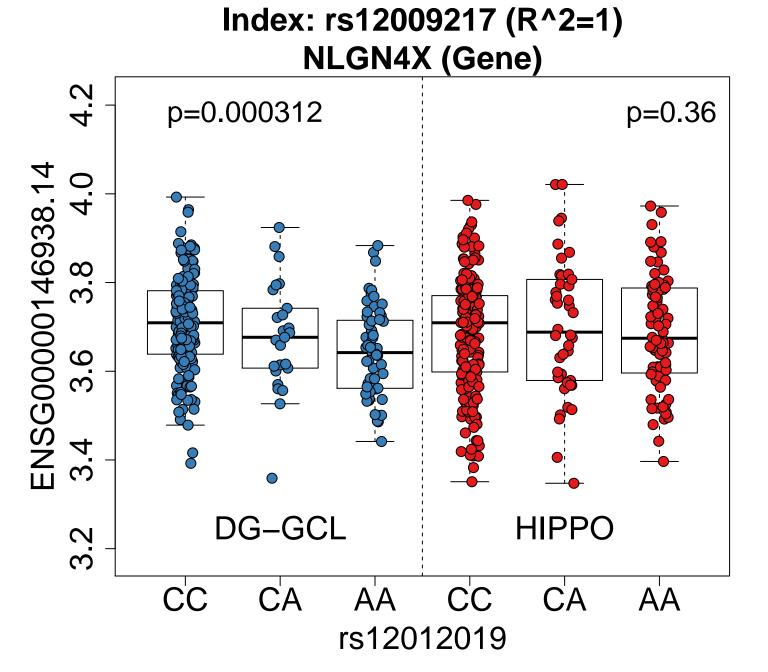


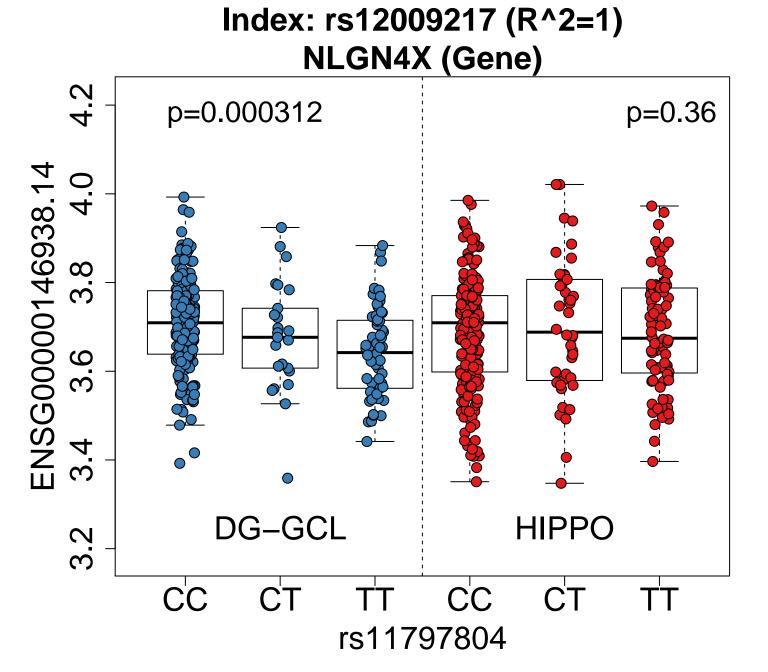


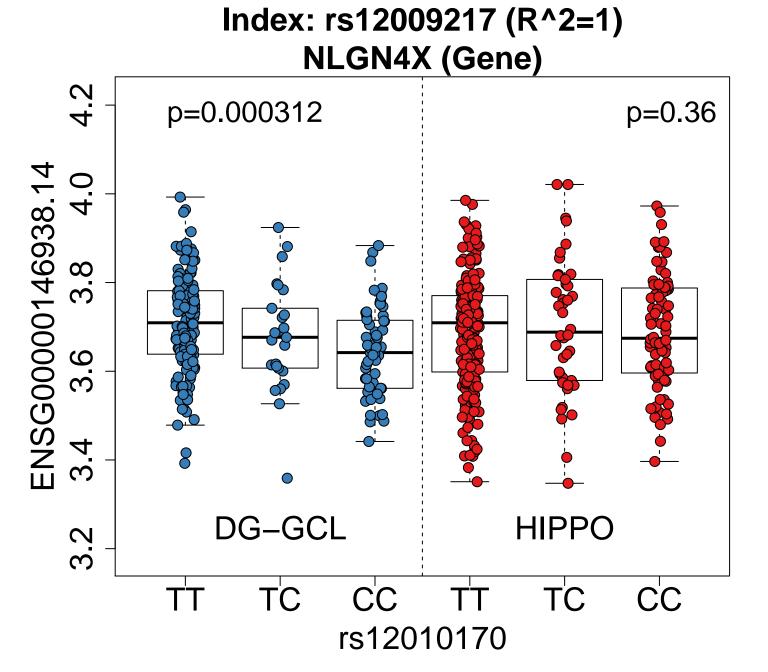
Index: rs35736453 (R^2=1) **THEMIS (Gene)** 1.5 p=0.000275 p=0.337ENSG00000172673.10 **HIPPO** TCTC TCTC rs35736453

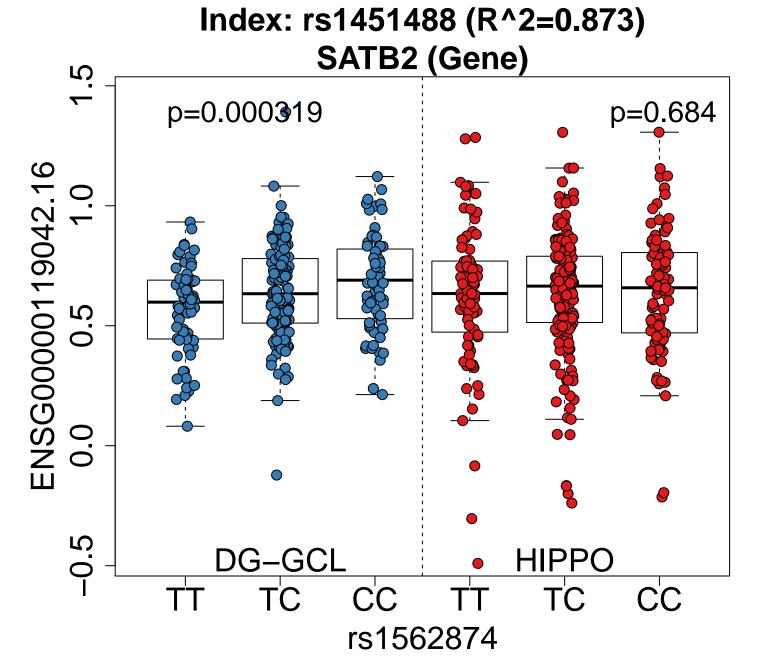


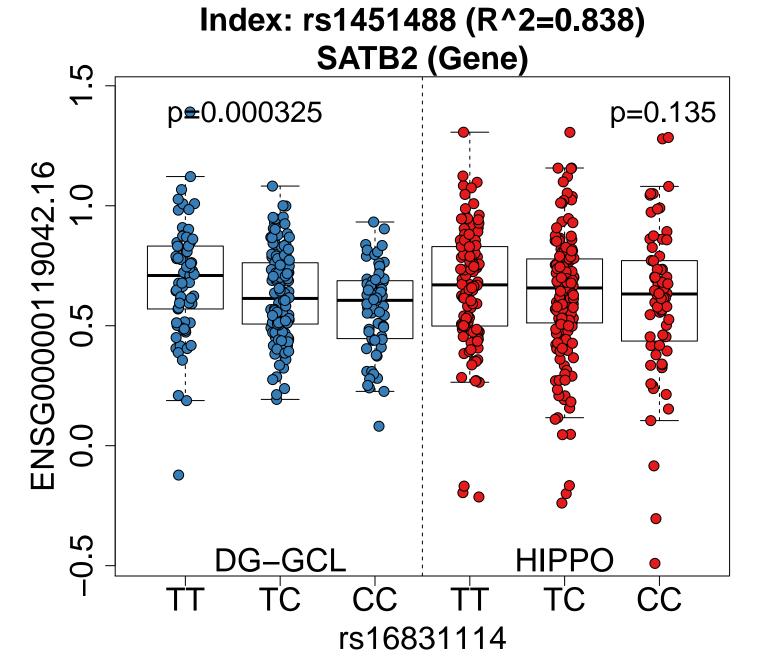
Index: rs2410572 (R^2=0.865) PSD3 (Gene) p=0.000301 p=0.618ENSG00000156011.16 5.5 DG-GCL **HIPPO** 4.5 GG **G**T GG **G**T rs35454369

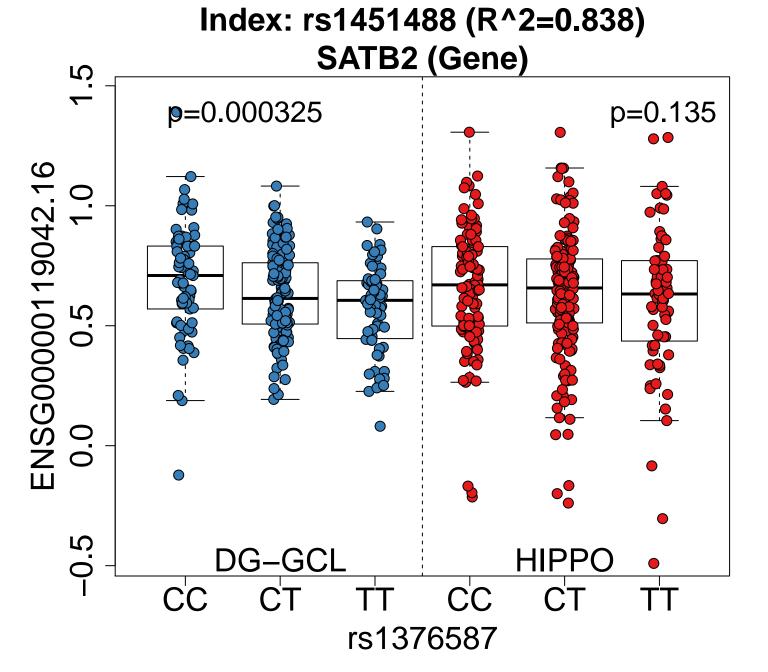


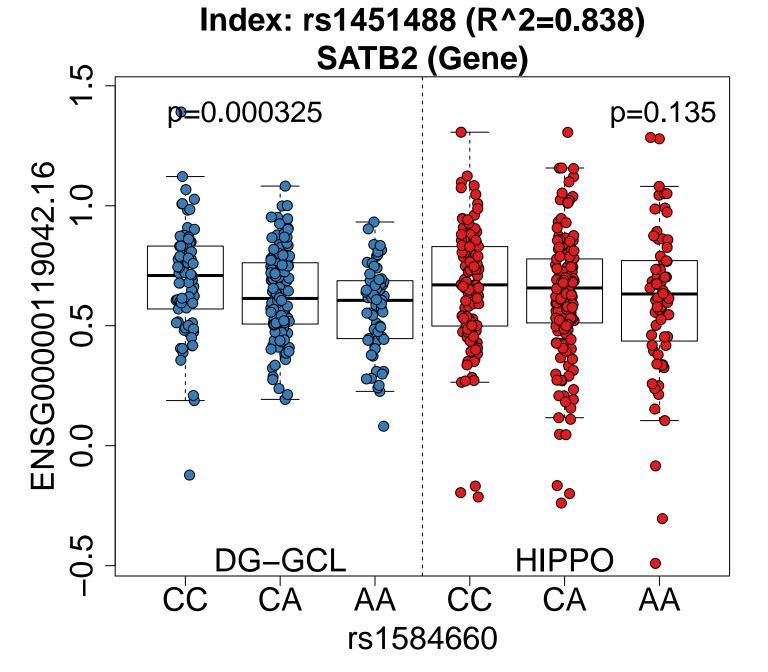


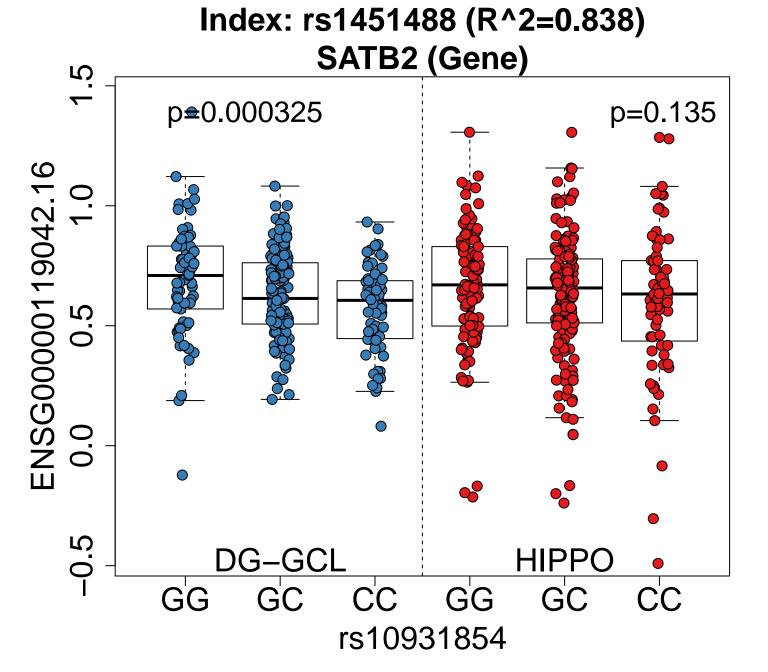


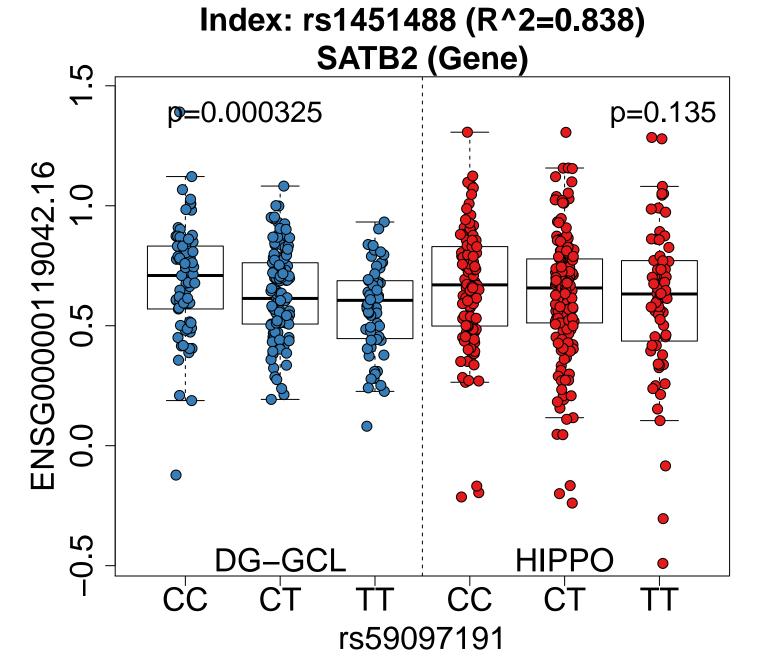


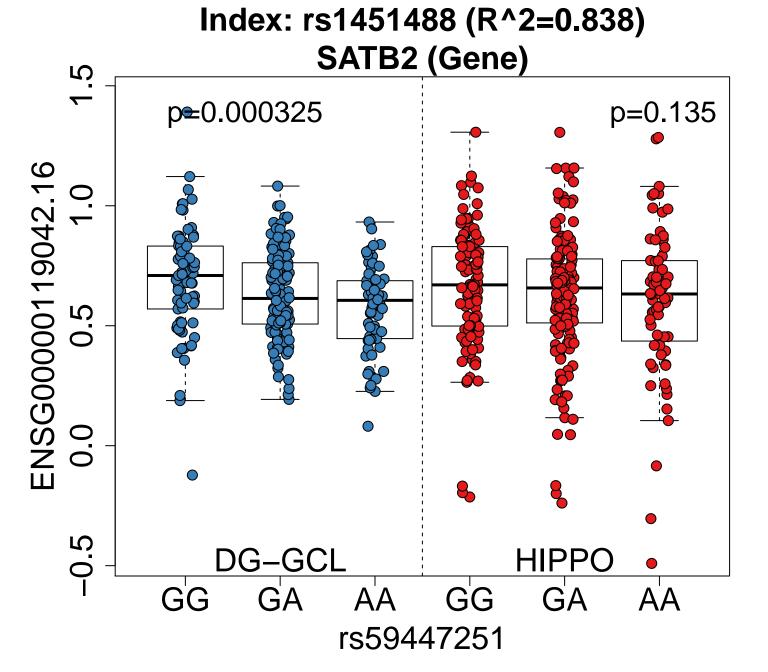


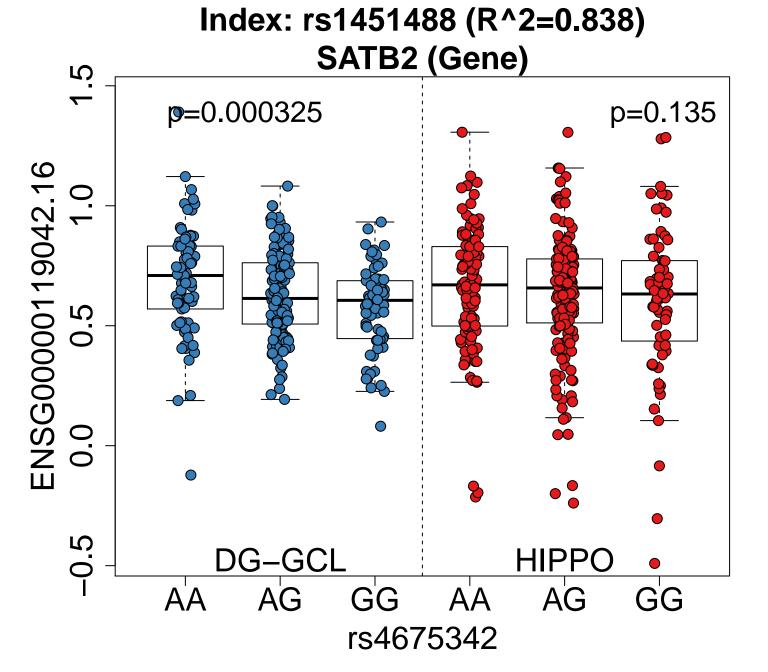






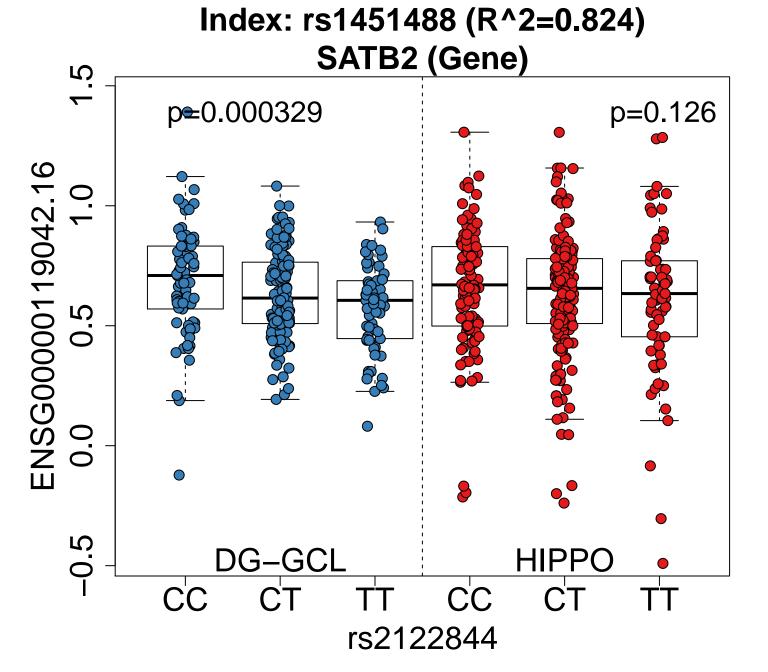




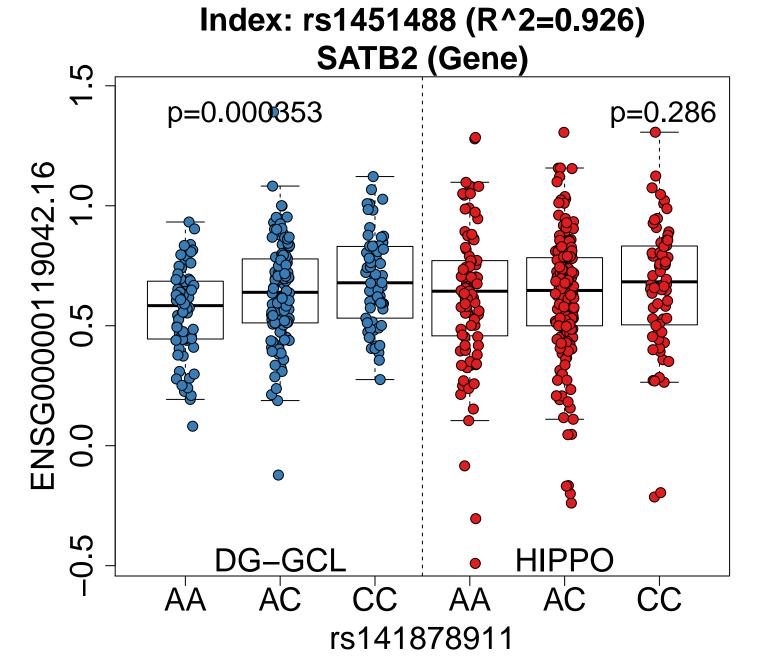


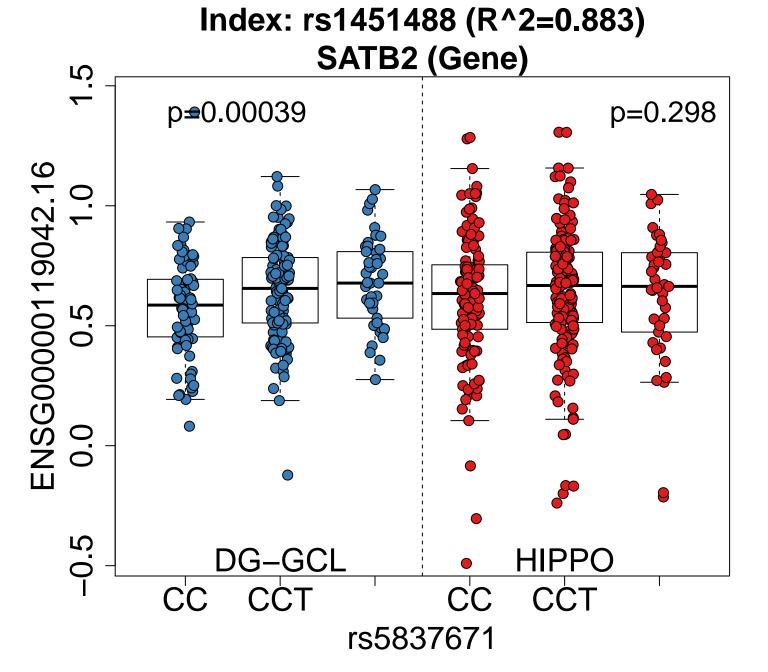
Index: rs2410572 (R^2=0.865) PSD3 (Gene) p=0.000325 p=0.618ENSG00000156011.16 5.5 DG-GCL **HIPPO** 4.5 CC CC rs13259407

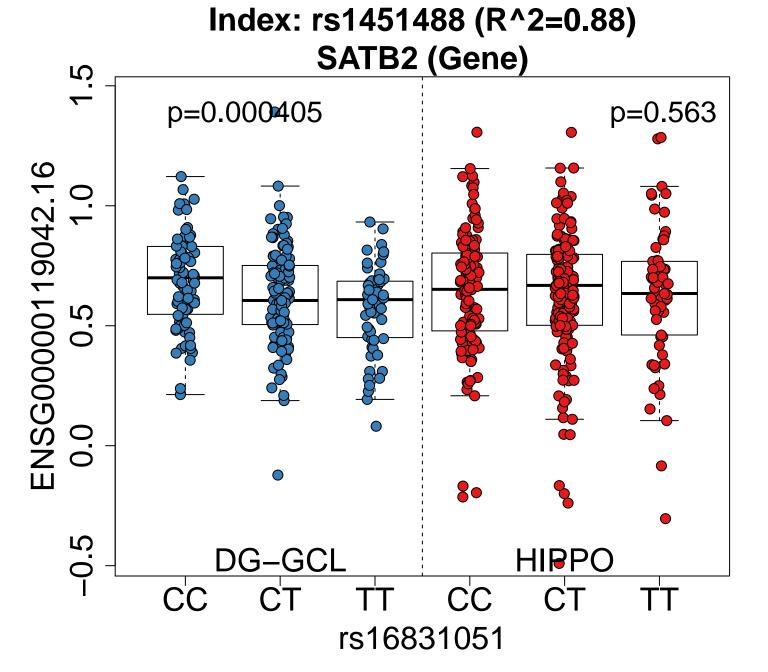
Index: rs35736453 (R^2=1) **THEMIS (Gene)** 5 p=0.000327 p=0.354ENSG00000172673.10 .0 0.5 1.0 **HIPPO** GG GG rs13197257



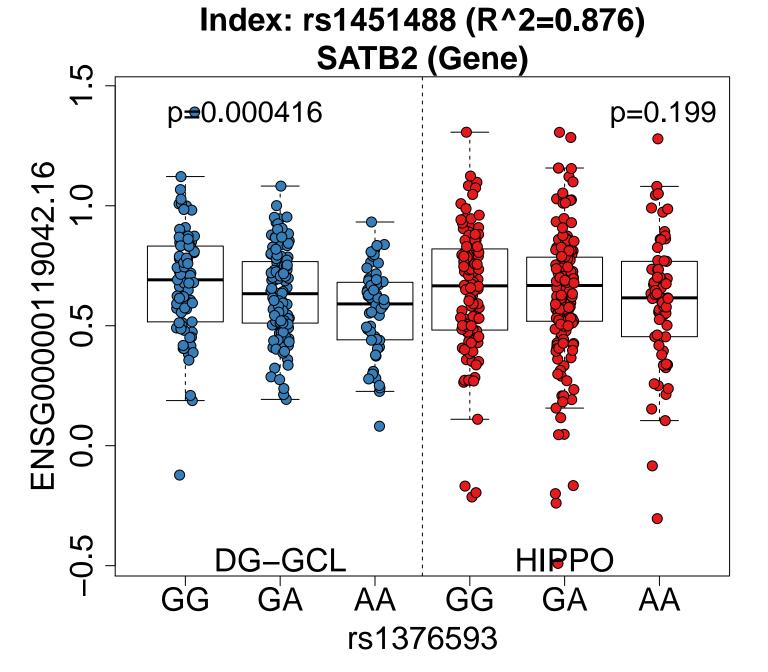
Index: rs12009217 (R^2=0.968) **NLGN4X (Gene)** 4.2 p=0.000338 p = 0.34ENSG00000146938.14 3.8 3.6 DG-GCL **HIPPO** 3.2 GG ΑĠ AΑ GG ΑA AG rs5961397

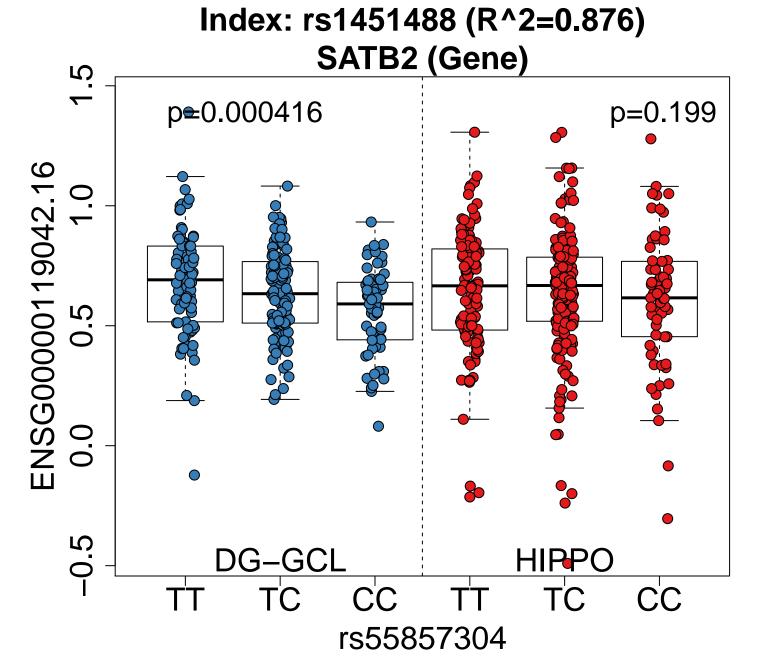


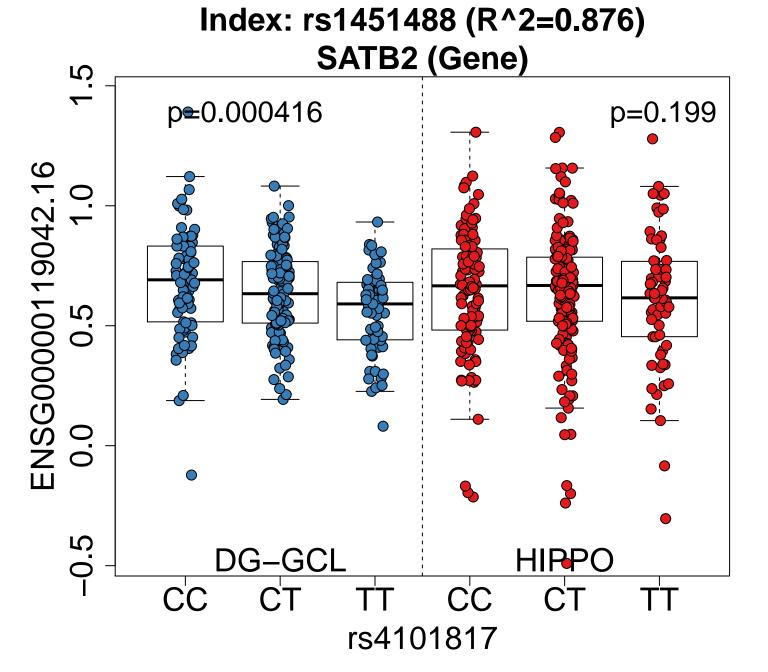


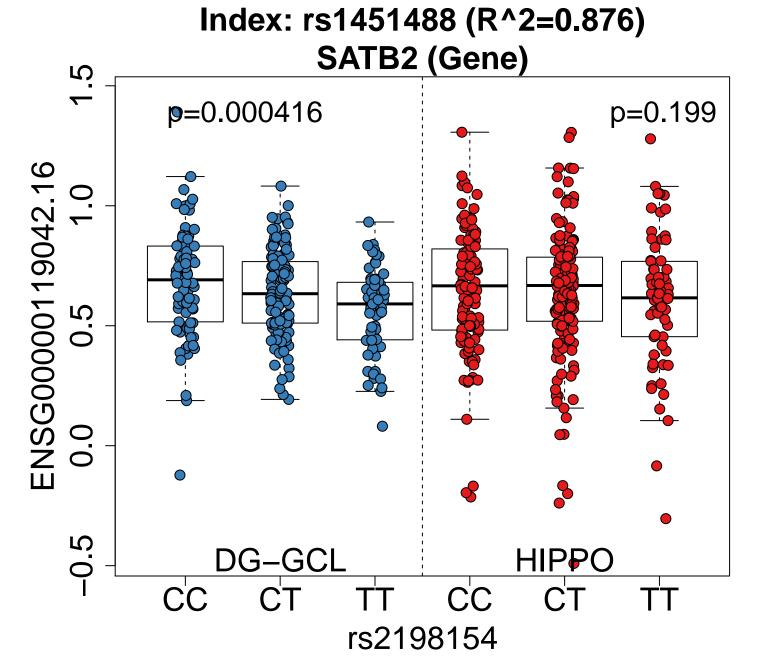


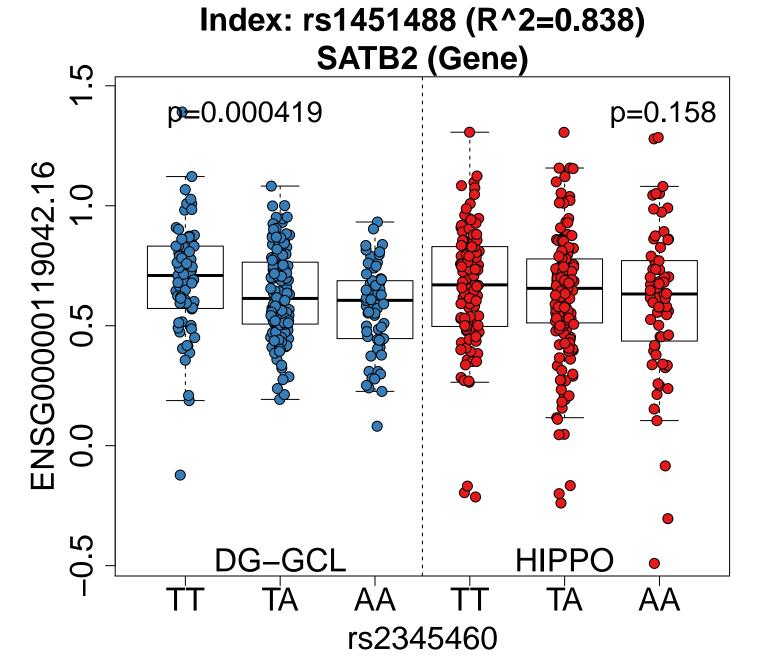
Index: rs7010876 (R^2=0.996) MMP16 (Gene) p=0.000413 p=0.271ENSG00000156103.15 3.0 2.6 DG-GCL **HIPPO** 2.2 AA ΑT ΑA ΑT rs34725691

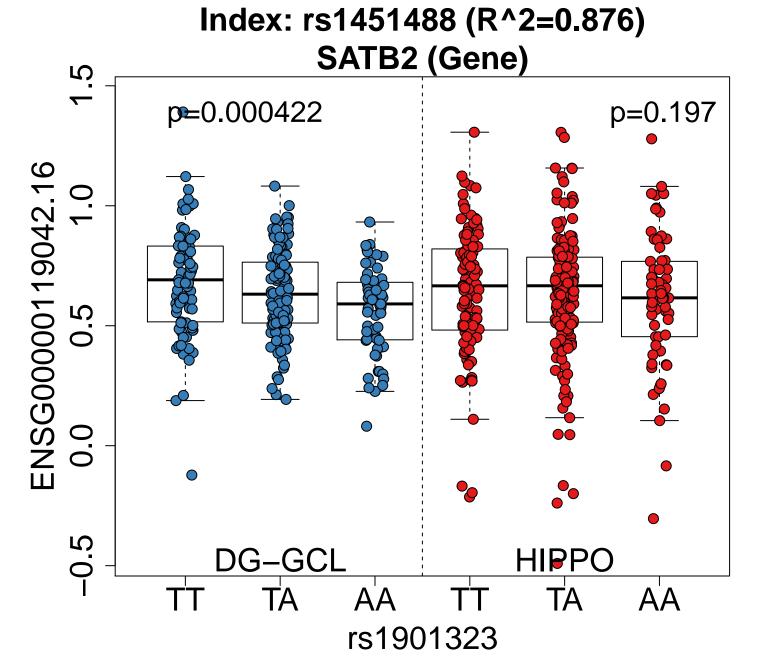


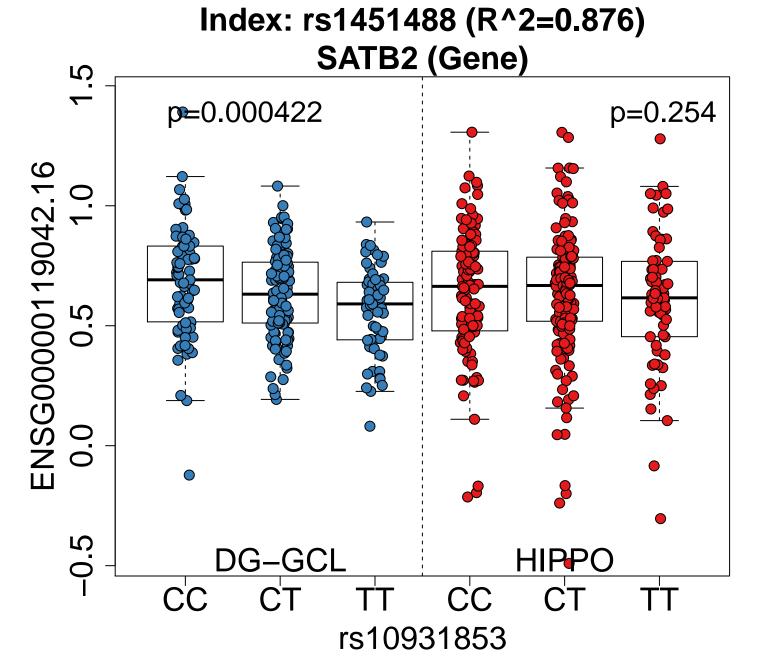


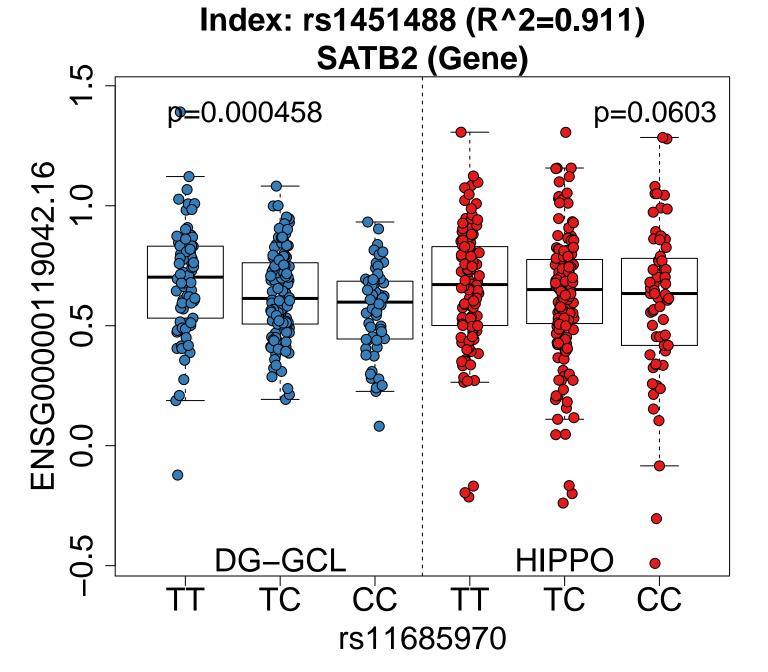


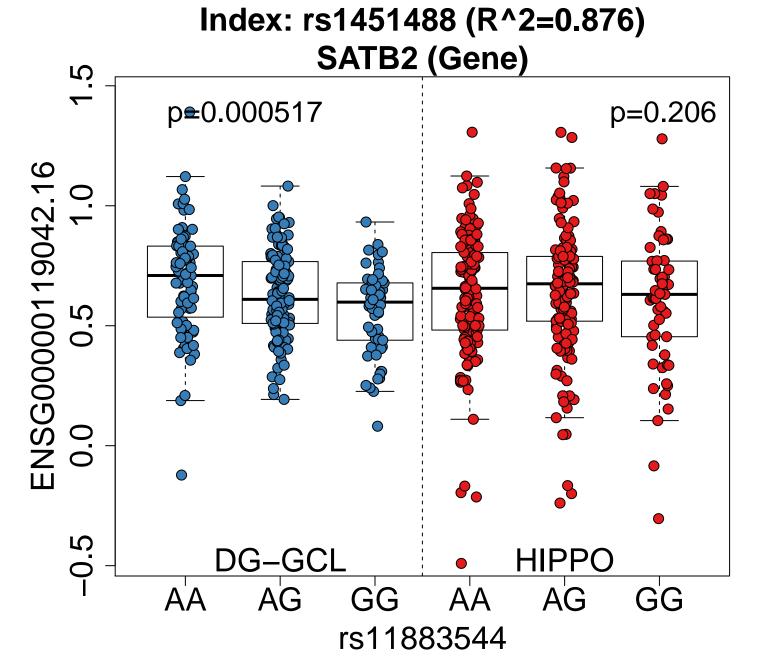




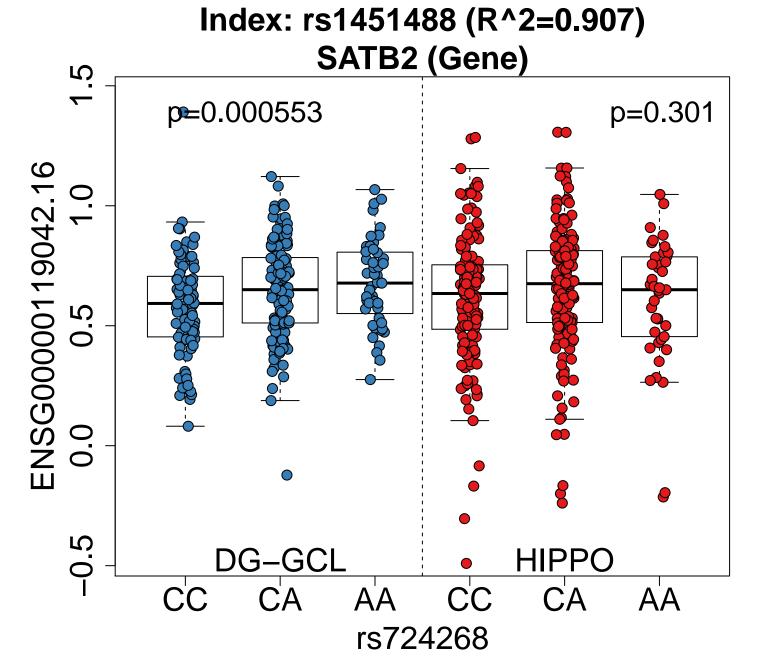


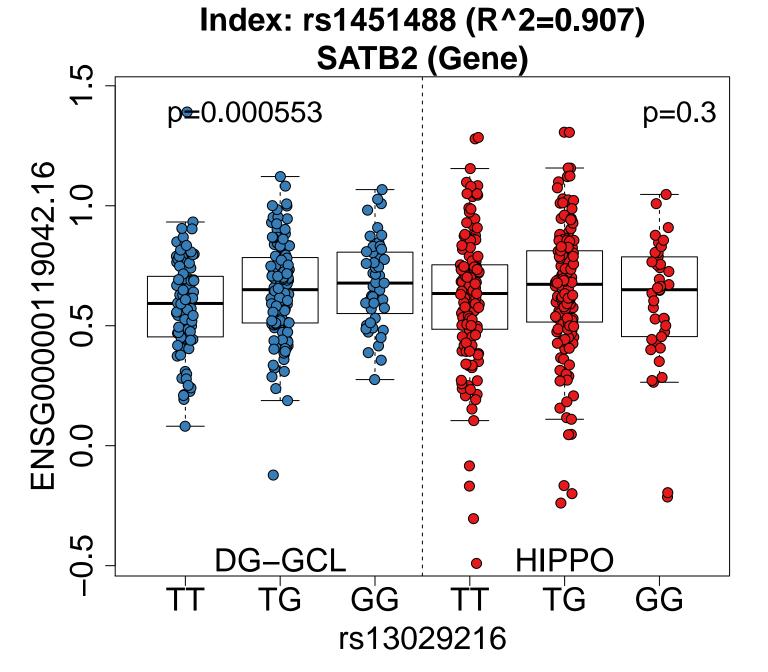


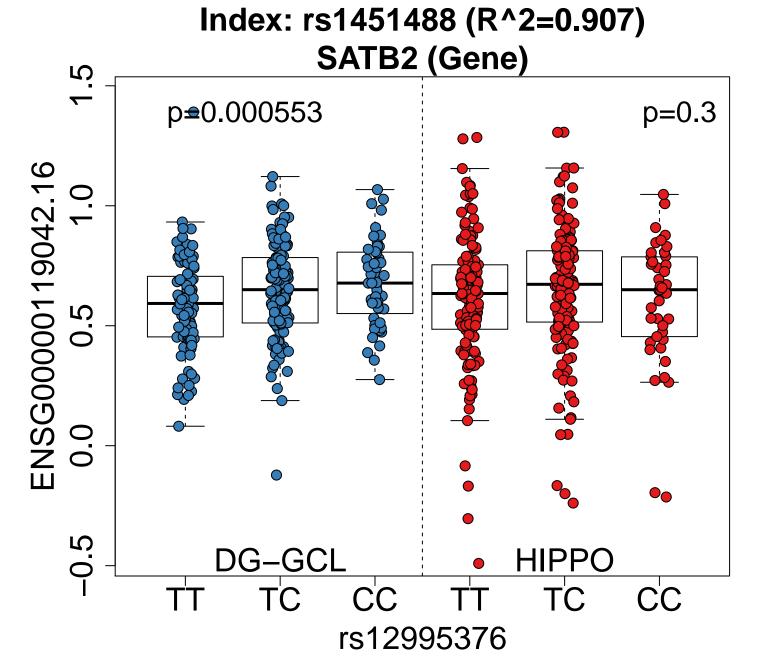


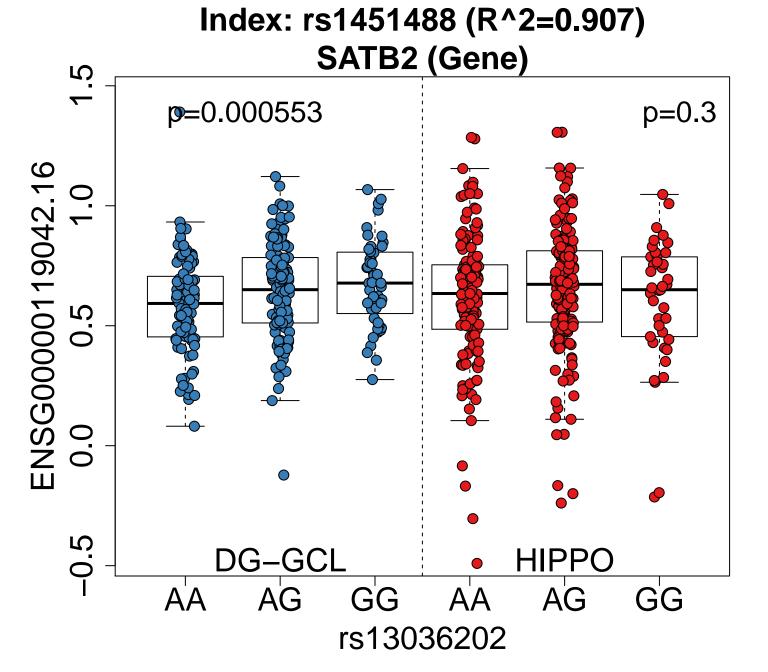


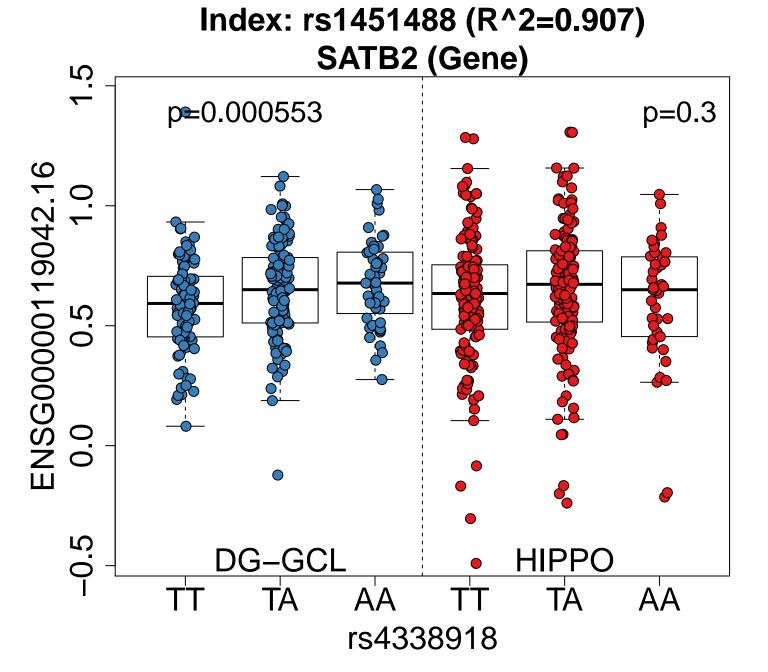
Index: rs7010876 (R^2=0.863) MMP16 (Gene) p=0.000552 p=0.417ENSG00000156103.15 3.0 2.6 DG-GCL **HIPPO** 2.2 GG GA ΑA GG GA rs2049073

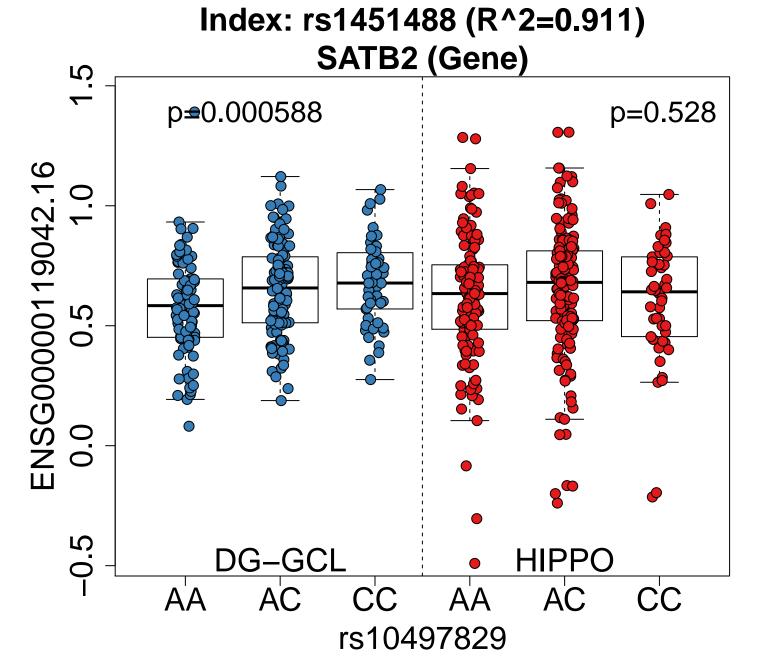


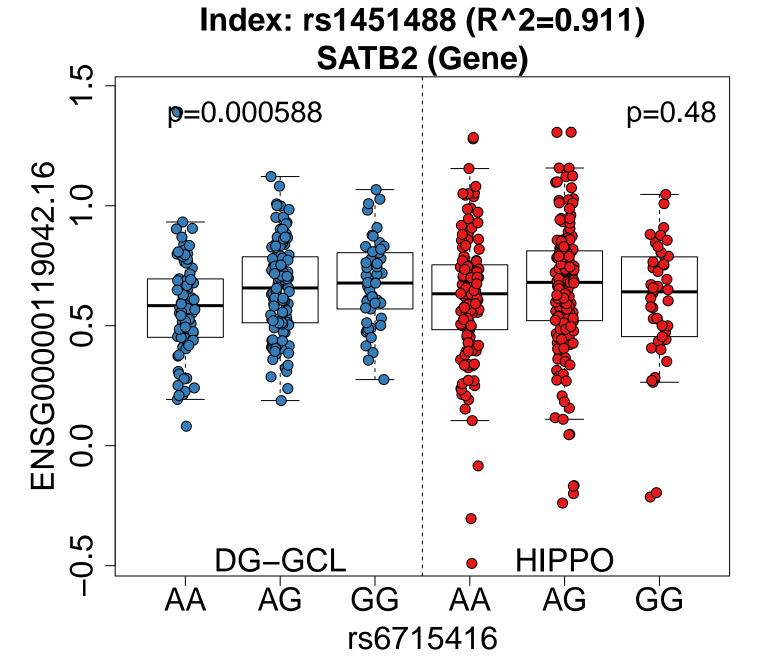


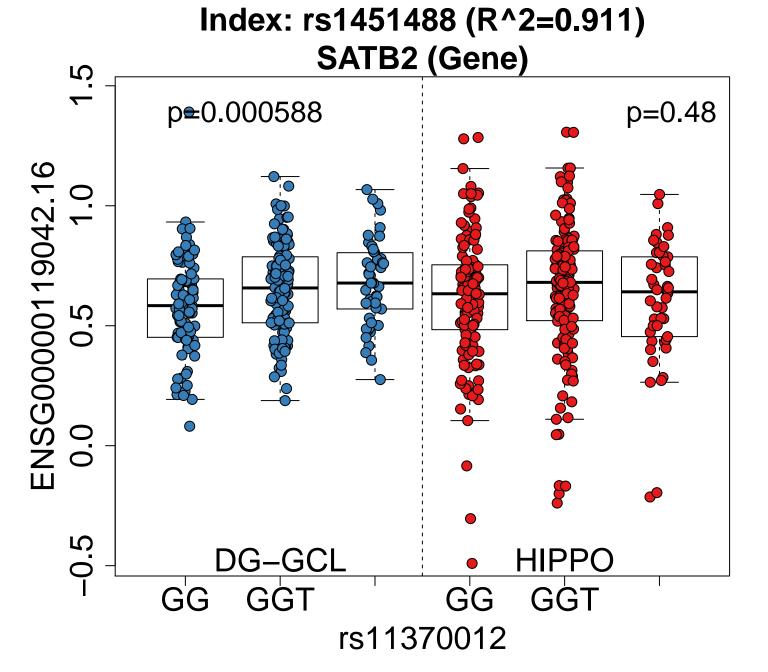


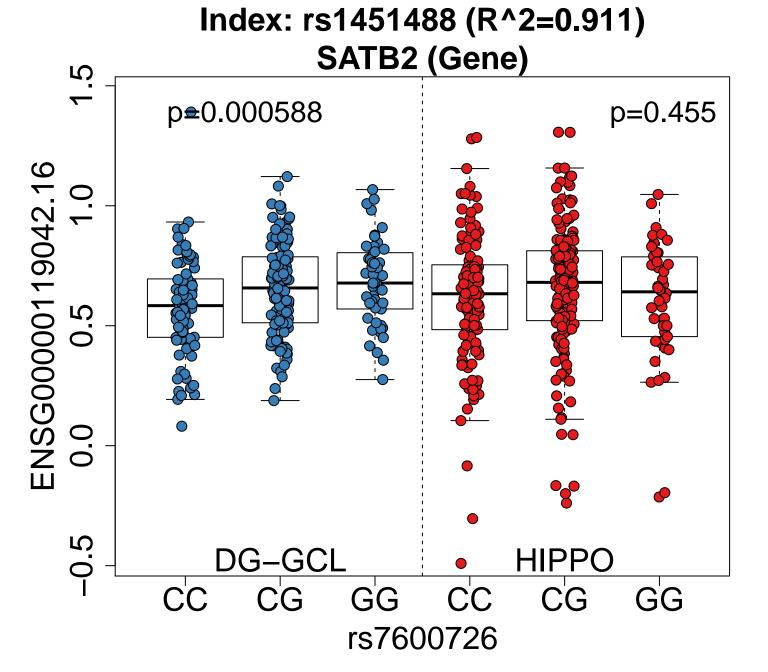












Index: rs7010876 (R^2=0.858) MMP16 (Gene) p=0.000597 p = 0.41ENSG00000156103.15 3.0 2.6 DG-GCL **HIPPO** 2.2 GG AAAG GG ΑA AG rs1879201

